

# STIC Search Report

# STIC Database Tracking Number: 120959

TO: James D Rutten

Location: 5B46 Art Unit: 2133

Monday, May 03, 2004

Case Serial Number: 09/764526

From: Geoffrey St. Leger

Location: EIC 2100

PK2-4B30

Phone: 308-7800

geoffrey.stleger@uspto.gov

# Search Notes

Dear Examiner Rutten,

Attached please find the results of your search request for application 09/764526. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,



# Green, Shirelle

Sent:

Unknown@Unknown.com Monday, May 03, 2004 12:16 PM STIC-EIC2100

To: Subject:

Generic form response

FAST + FOCUSED SEARCH

ResponseHeader=Commercial Database Search Request

AccessDB#=

LogNumber=

SearcherPhone=

SearcherBranch= 4B30 EC2 100

MyDate=Mon May 3 12:16:05 EDT 2004

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Artunit=2122

Office = pk2-5b46

Serialnum=09/764,526

Earliest=1/17/2001

OtherDate=

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#### **Enter your Contact Information below:**

Name:
Derek Rutten Employee Number: Phone: Phone:
179877     1703-605-5233
Art Unit or Office: Building & Room Number: pk2-5b46
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If not related to a patent application, please enter 189(764,526
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A "Fast & Focused" Search is completed in 2-3 hours (max vim). The items arch must be on a very specific topic and
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What is the topic, novelty, motivation, utility, or other specific detail(s) defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please FAX or send the abstract, background, brief summary, pertinent claims, citations of relevant art you have found, or other supplementary information to EIC2100.

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Looking for a function in source code whose function name includes version information regarding the function. So, for example, if I want to use version 1.2 of the print() function, the name of the function might be print\_1.2(). The invention uses this as a dummy function that has no body, but simply uses the name of the function to indicate the version of a library. So the print() function might actually be residing in a library called io.1, and the function would really be called io\_1.2(). I already have other art, so I simply need any instance of a function containing version information in the name.

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(For fastest service, let us know the best times to contact you, in case the searcher needs further clarification on your search.)

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library version command

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Results 1 - 10 of about 801,000 for library version command. (0.63 seconds)

#### **VERSION Command**

... The format of the **version** script **commands** is identical ... which symbols are bound to which **version** nodes, and ... not globally visible outside of the shared **library**. ... www.redhat.com/docs/manuals/enterprise/ RHEL-3-Manual/gnu-linker/**version**.html - 14k - <u>Cached</u> - <u>Similar pages</u>

#### Communicator's Command Line Options

... Command, Parameters. Create a dummy profile and launch the Account Setup application (through which the user will create a real account). Applies to version 4.02 ... developer netscape.com/docs/manuals/ deploymt/options.htm - 14k - Cached - Similar pages

#### HTML Tidy Project Page

... You can find current builds of the **command** line tool, the DLL and the ... All development is now done on the **library version** of Tidy, otherwise known as TidyLib. ... tidy.sourceforge.net/ - 29k - <u>Cached</u> - <u>Similar pages</u>

#### libwww-perl

... This **version** does not provide HTTP/1.1 support ... Notice, that the **library** is still alpha software (and ... lwp-request A simple **command** that fetch documents specified ... www.linpro.no/lwp/ - 12k - <u>Cached</u> - <u>Similar pages</u>

#### Visual C++ Developer Center: Microsoft Visual C++ Toolkit 2003

... Toolkit will work fine alongside installed **versions** of Visual ... installs (1) the Visual C++ **command**-line compiler ... 2) the Visual C++ C Runtime **Library** and static ... msdn.microsoft.com/visualc/vctoolkit2003/ - 23k - May 1, 2004 - Cached - Similar pages

#### Performance Counters Library - command-line options

... Command-Line Options -processor -version Print information about the processor, library version, and rabbit version. -version subsumes -processor. ... www.scl.ameslab.gov/Projects/ Rabbit/command version.html - 4k - Cached - Similar pages

#### Yal Version 3.1 Description

... You can always find the latest **version** of Ygl in ... Several environment variables are referenced in the **library** to control ... x mbx" to the X-Servers **command** line on ... www.thp.uni-duisburg.de/Ygl/ReadMe.html - 28k - <u>Cached</u> - <u>Similar pages</u>

#### GNU Coding Standards: Command-Line Interfaces

... ways to find out the precise file name where a **command** is found in ... you can do so by printing an additional line of **version** info for each **library** you want ... www.gnu.org/prep/standards 18.html - 11k - Cached - Similar pages

#### **PGPLOT Graphics Subroutine Library**

... Starlink also maintains a **version** of PGPLOT layered on the GKS **library** ... and fitting subroutine layered on PGPLOT, and QDP provides a **command** interface to ... www.astro.caltech.edu/~tjp/pgplot/ - 16k - Cached - Similar pages

#### ASVGuy::SWFBlog: JSFL: Arrange Library

... Comments and bug reports are welcome. Download ASV Arrange Library command: ZIP version MXP version. Jan 26, 2004 Update: Version 1.5 is released. ... www.asvguy.com/2004/01/jsfl arrange li.html - 16k - May 2, 2004 - Cached - Similar pages

# Client/Server Interface for Berkeley DB

Susan LoVerso sue@sleepycat.com Rev 1.3 1999 Nov 29

We provide an interface allowing client/server access to Berkeley DB. Our goal is to provide a client and server library to allow users to separate the functionality of their applications yet still have access to the full benefits of Berkeley DB. The goal is to provide a totally seamless interface with minimal modification to existing applications as well.

The client/server interface for Berkeley DB can be broken up into several layers. At the lowest level there is the transport mechanism to send out the messages over the network. Above that layer is the messaging layer to interpret what comes over the wire, and bundle/unbundle message contents. The next layer is Berkeley DB itself.

The transport layer uses ONC RPC (RFC 1831) and XDR (RFC 1832). We declare our message types and operations supported by our program and the RPC library and utilities pretty much take care of the rest. The *rpcgen* program generates all of the low level code needed. We need to define both sides of the RPC.

## **DB** Modifications

To achieve the goal of a seamless interface, it is necessary to impose a constraint on the application. That constraint is simply that all database access must be done through an open environment. I.e. this model does not support standalone databases. The reason for this constraint is so that we have an environment structure internally to store our connection to the server. Imposing this constraint means that we can provide the seamless interface just by adding a single environment method: DBENV->set server().

The planned interface for this method is:

```
DBENV->set_server(dbenv, /* DB_ENV structure */
hostname /* Host of server */
cl_timeout, /* Client timeout (sec) */
srv_timeout,/* Server timeout (sec) */
flags); /* Flags: unused */
```

This new method takes the hostname of the server, establishes our connection and an environment on the server. If a server timeout is specified, then we send that to the server as well (and the server may or may not choose to use that value). This timeout is how long the server will allow the environment to remain idle before declaring it dead and releasing resources on the server. The pointer to the connection is stored on the client in the DBENV structure and is used by all other methods to figure out with whom to communicate. If a client timeout is specified, it indicates how long the client is willing to wait for a reply from the server. If the values are 0, then defaults are used. Flags is currently unused, but exists because we always need to have a placeholder for flags and it would be used for specifying authentication desired (were we to provide an authentication scheme at some point) or other uses not thought of yet!

This client code is part of the monolithic DB library. The user accesses the client functions via a new flag to db\_env\_create(). That flag is DB\_CLIENT. By using this flag the user indicates they want to have the client methods rather than the standard methods for the environment. Also by issuing this flag, the user needs to connect to the server via the DBENV->set\_server() method.

We need two new fields in the *DB\_ENV* structure. One is the socket descriptor to communicate to the server, the other field is the client identifier the server gives to us. The *DB*, and *DBC* only need one additional field, the client identifier. The *DB\_TXN* structure does not need modification, we are overloading the *txn\_id* field.

## Issues

We need to figure out what to do in case of client and server crashes. Both the client library and the server program are stateful. They both consume local resources during the lifetime of the connection. Should one end drop that connection, the other side needs to release those resources.

If the server crashes, then the client will get an error back. I have chosen to implement time-outs on the client side, using a default or allowing the application to specify one through the <a href="DBENV->set\_server">DBENV->set\_server()</code> method. Either the current operation will time-out waiting for the reply or the next operation called will time out (or get back some other kind of error regarding the server's non-existence). In any case, if the client application gets back such an error, it should abort any open transactions locally, close any databases, and close its environment. It may then decide to retry to connect to the server periodically or whenever it comes back. If the last operation a client did was a transaction commit that did not return or timed out from the server, the client cannot determine if the transaction was committed or not but must release the local transaction resources. Once the server is back up, recovery must be run on the server. If the transaction commit did not get to the server before the crash, then the operation is redone, if the transaction commit did not get to the server, the pieces of the transaction are undone on recover. The client cannot use ID's from its previous connection to the server. However, if recovery is run, then consistency is assured.

If the client crashes, the server needs to somehow figure this out. The server is just sitting there waiting for a request to come in. A server must be able to time-out a client. Similar to ftpd, if a connection is idle for N seconds, then the server decides the client is dead and releases that client's resources, aborting any open transactions, closing any open databases and environments. The server timing out a client is not a trivial issue however. The generated function for the server just calls  $svc\_run()$ . The server code I write contains procedures to do specific things. We do not have access to the code calling select(). Timing out the select is not good enough even if we could do so. We want to time-out idle environments, not simply cause a time-out if the server is idle a while. See the discussion of the server program for a description of how we accomplish this.

Since rpcgen generates the main() function of the server, I do not yet know how we are going to have the server multi-threaded or multi-process without changing the generated code. The RPC book indicates that the only way to accomplish this is through modifying the generated code in the server. For the moment we will ignore this issue while we get the core server working, as it is only a performance issue.

We do not do any security or authentication. Someone could get the code and modify it to spoof messages, trick the server, etc. RPC has some amount of authentication built into it. I haven't yet looked into it much to know if we want to use it or just point a user at it. The changes to the client code

are fairly minor, the changes to our server procs are fairly minor. We would have to add code to a *sed* script or *awk* script to change the generated server code (yet again) in the dispatch routine to perform authentication.

We will need to get an official program number from Sun. We can get this by sending mail to rpc@sun.com and presumably at some point they will send us back a program number that we will encode into our XDR description file. Until we release this we can use a program number in the "user defined" number space.

# The Server Program

The server is a standalone program that the user builds and runs, probably as a daemon like process. This program is linked against the Berkeley DB library and the RPC library (which is part of the C library on my FreeBSD machine, others may have/need *-lrpclib*). The server basically is a slave to the client process. All messages from the client are synchronous and two-way. The server handles messages one at a time, and sends a reply back before getting another message. There are no asynchronous messages generated by the server to the client.

We have made a choice to modify the generated code for the server. The changes will be minimal, generally calling functions we write, that are in other source files. The first change is adding a call to our time-out function as described below. The second change is changing the name of the generated main() function to \_\_dbsrv\_main(), and adding our own main() function so that we can parse options, and set up other initialization we require. I have a sed script that is run from the distribution scripts that massages the generated code to make these minor changes.

Primarily the code needed for the server is the collection of the specified RPC functions. Each function receives the structure indicated, and our code takes out what it needs and passes the information into DB itself. The server needs to maintain a translation table for identifiers that we pass back to the client for the environment, transaction and database handles.

The table that the server maintains, assuming one client per server process/thread, should contain the handle to the environment, database or transaction, a link to maintain parent/child relationships between transactions, or databases and cursors, this handle's identifier, a type so that we can error if the client passes us a bad id for this call, and a link to this handle's environment entry (for time out/activity purposes). The table contains, in entries used by environments, a time-out value and an activity time stamp. Its use is described below for timing out idle clients.

Here is how we time out clients in the server. We have to modify the generated server code, but only to add one line during the dispatch function to run the time-out function. The call is made right before the return of the dispatch function, after the reply is sent to the client, so that client's aren't kept waiting for server bookkeeping activities. This time-out function then runs every time the server processes a request. In the time-out function we maintain a time-out hint that is the youngest environment to time-out. If the current time is less than the hint we know we do not need to run through the list of open handles. If the hint is expired, then we go through the list of open environment handles, and if they are past their expiration, then we close them and clean up. If they are not, we set up the hint for the next time.

Each entry in the open handle table has a pointer back to its environment's entry. Every operation within this environment can then update the single environment activity record. Every environment can have a

different time-out. The DBENV->set\_server call takes a server time-out value. If this value is 0 then a default (currently 5 minutes) is used. This time-out value is only a hint to the server. It may choose to disregard this value or set the time-out based on its own implementation.

For completeness, the flaws of this time-out implementation should be pointed out. First, it is possible that a client could crash with open handles, and no other requests come in to the server. Therefore the time-out function never gets run and those resources are not released (until a request does come in). Similarly, this time-out is not exact. The time-out function uses its hint and if it computes a hint on one run, an earlier time-out might be created before that time-out expires. This issue simply yields a handle that doesn't get released until that original hint expires. To illustrate, consider that at the time that the time-out function is run, the youngest time-out is 5 minutes in the future. Soon after, a new environment is opened that has a time-out of 1 minute. If this environment becomes idle (and other operations are going on), the time-out function will not release that environment until the original 5 minute hint expires. This is not a problem since the resources will eventually be released.

On a similar note, if a client crashes during an RPC, our reply generates a SIGPIPE, and our server crashes unless we catch it. Using *signal(SIGPIPE, SIG\_IGN)* we can ignore it, and the server will go on. This is a call in our *main()* function that we write. Eventually this client's handles would be timed out as described above. We need this only for the unfortunate window of a client crashing during the RPC.

The options below are primarily for control of the program itself. Details relating to databases and environments should be passed from the client to the server, since the server can serve many clients, many environments and many databases. Therefore it makes more sense for the client to set the cache size of its own environment, rather than setting a default cachesize on the server that applies as a blanket to any environment it may be called upon to open. Options are:

- -t to set the default time-out given to an environment.
- -T to set the maximum time-out allowed for the server.
- -L to log the execution of the server process to a specified file.
- -v to run in verbose mode.
- -M to specify the maximum number of outstanding child server processes/threads we can have at any given time. The default is 10. [We are not yet doing multiple threads/processes.]

# The Client Code

The client code contains all of the supported functions and methods used in this model. There are several methods in the <u>\_\_db\_env</u> and <u>\_\_db</u> structures that currently do not apply, such as the callbacks. Those fields that are not applicable to the client model point to NULL to notify the user of their error. Some method functions remain unchanged, as well such as the error calls.

The client code contains each method function that goes along with the <u>RPC</u> calls described elsewhere. The client library also contains its own version of db\_env\_create(), which does not result in any messages going over to the server (since we do not yet know what server we are talking to). This function sets up the pointers to the correct client functions.

All of the method functions that handle the messaging have a basic flow similar to this:

- Local arg parsing that may be needed
- Marshalling the message header and the arguments we need to send to the server

- Sending the message
- Receiving a reply
- Unmarshalling the reply
- Local results processing that may be needed

### **Generated Code**

Almost all of the code is generated from a source file describing the interface and an *awk* script. This awk script generates six (6) files for us. It also modifies one. The files are:

- 1. Client file The C source file created containing the client code.
- 2. Client template file The C template source file created containing interfaces for handling client-local issues such as resource allocation, but with a consistent interface with the client code generated.
- 3. Server file The C source file created containing the server code.
- 4. Server template file The C template source file created containing interfaces for handling server-local issues such as resource allocation, calling into the DB library but with a consistent interface with the server code generated.
- 5. XDR file The XDR message description file created.
- 6. Server sed file A sed script that contains commands to apply to the server procedure file (i.e. the real source file that the server template file becomes) so that minor interface changes can be consistently and easily applied to the real code.
- 7. Server procedure file This is the file that is modified by the sed script generated. It originated from the server template file.

The awk script reads a source file, *db\_server/rpc.src* that describes each operation and what sorts of arguments it takes and what it returns from the server. The syntax of the source file describes the interface to that operation. There are four (4) parts to the syntax:

- BEGIN function version# codetype begins a new functional interface for the given function. Each function has a version number, currently all of them are at version number one (1). The code type indicates to the awk script what kind of code to generate. The choices are:
  - ODE Generate all code, and return a status value. If specified, the client code will simply return the status to the user upon completion of the RPC call.
  - o **RETCODE** Generate all code and call a return function in the client template file to deal with client issues or with other returned items. If specified, the client code generated will call a function of the form \_\_dbcl\_<name>\_ret() where <name> is replaced with the function name given here. This function is placed in the template file because this indicates that something special must occur on return. The arguments to this function are the same as those for the client function, with the addition of the reply message structure.
  - o **NOCLNTCODE** Generate XDR and server code, but no corresponding client code. (This is used for functions that are not named the same thing on both sides. The only use of this at the moment is db\_env\_create and db\_create. The environment create call to the server is actually called from the DBENV->set\_server() method. The db\_create code exists elsewhere in the library and we modify that code for the client call.)
  - 2. **ARG** *RPC-type C-type varname [list-type]* each line of this describes an argument to the function. The argument is called *varname*. The *C-type* given is what it should look like in the C code generated, such as **DB** \*, **u\_int32\_t**, **const char** \*. The *RPC-type* is an indication about how the RPC request message should be constructed. The RPC-types allowed are described below.
  - 3. RET RPC-type C-type varname [list-type]- each line of this describes what the server should

return from this procedure call (in addition to a status, which is always returned and should not be specified). The argument is called *varname*. The *C-type* given is what it should look like in the C code generated, such as **DB** \*, **u\_int32\_t**, **const char** \*. The *RPC-type* is an indication about how the RPC reply message should be constructed. The RPC-types are described below.

4. END - End the description of this function. The result is that when the awk script encounters the END tag, it now has all the information it needs to construct the generated code for this function.

The *RPC-type* must be one of the following:

- IGNORE This argument is not passed to the server and should be ignored when constructing the XDR code. Only allowed for an ARG specification.
- STRING This argument is a string.
- **INT** This argument is an integer of some sort.
- DBT This argument is a DBT, resulting in its decomposition into the request message.
- LIST This argument is an opaque list passed to the server (NULL-terminated). If an argument of this type is given, it must have a *list-type* specified that is one of:
  - <sub>o</sub> STRING
  - o INT
  - o ID.
- **ID** This argument is an identifier.

So, for example, the source for the DB->join RPC call looks like:

BEGIN	dbjoin	1	RETCODE
ARG	ID	DB *	dbp
ARG	LIST	DBC **	curs ID
ARG	IGNORE	DBC **	dbcpp
ARG	INT	u_int32_t	flags
RET	ID	long	dbcid
END			

Our first line tells us we are writing the dbjoin function. It requires special code on the client so we indicate that with the RETCODE. This method takes four arguments. For the RPC request we need the database ID from the dbp, we construct a NULL-terminated list of IDs for the cursor list, we ignore the argument to return the cursor handle to the user, and we pass along the flags. On the return, the reply contains a status, by default, and additionally, it contains the ID of the newly created cursor.

# **Building and Installing**

I need to verify with Don Anderson, but I believe we should just build the server program, just like we do for db\_stat, db\_checkpoint, etc. Basically it can be treated as a utility program from the building and installation perspective.

As mentioned early on, in the section on DB Modifications, we have a single library, but allowing the user to access the client portion by sending a flag to db\_env\_create(). The Makefile is modified to include the new files.

Testing is performed in two ways. First I have a new example program, that should become part of the example directory. It is basically a merging of ex\_access.c and ex\_env.c. This example is adequate to test basic functionality, as it does just does database put/get calls and appropriate open and close calls. However, in order to test the full set of functions a more generalized scheme is required. For the

moment, I am going to modify the Tcl interface to accept the server information. Nothing else should need to change in Tcl. Then we can either write our own test modules or use a subset of the existing ones to test functionality on a regular basis.

```
* File Name: LALStatusMacros.h
* Author: Creighton, J. D. E. and Creighton, T. D.
* Revision: $Id: LALStatusMacros.h,v 1.2 2000/02/17 19:22:26 jolien Exp $
*_____
* NAME
* LALStatusMacros.h
* SYNOPSIS
* #include "LALStatusMacros.h"
* DESCRIPTION
* This header file defines programming macros for handling LAL status
* pointers. The intent is simultaneously to standardize the error
* reporting, and to make the reporting as transparent as possible to
* people coding individual routines.
* The following summarized everything the common programmer needs to
* know in order to follow LAL standard error reporting.
* 0. The Status structure
    All error reporting is handled by a structure type named Status.
    This structure has the following fields:
    INT4 statusCode: A code indicating the exit status of a
      function. O represents a normal exit. Negative values are
      reserved for certain standard error types. The authors of
      individual functions should assign positive values to the
      various ways in which their code can fail.
    const CHAR *statusDescription: An explanatory string
      corresponding to the numerical status code.
    const CHAR *Id: A character string identifying the source file
      and version number of the function being reported on.
    const CHAR *file: The file name of the actual .c file containing
      the function code.
    INT4 line: The line number in the .c file of the instruction
      where any error was reported.
    Status *statusPtr: A recursive pointer to another status
      pointer. This structure is used to report an error in a
      subroutine of the current function. Thus if an error occurs
      in a deeply-nested routine, the status structure returned to
      the main program will be the head of a linked list of status
      structures, one for each nested level, with the tail structure
      reporting the actual error that caused the overlying routines
      to fail.
    INT4 level: The nested-function level where any error was reported.
```

The standard status codes are as follows:

- 0: Nominal execution: the function returned successfully.
- -1: Recursive error: the function aborted due to failure of a subroutine.
- -2: The status structure passed to the function had a non-null statusPtr field, which blocks the function from calling subroutines (it is symptomatic of something screwy going on in the calling routine).
- -4: Memory allocation error: the function was unable to allocate the statusPtr field to pass down to a subroutine.
- -8: The statusPtr could not be deallocated at the end of all subroutine calls; one of the subroutines must have lost it or set it to null.

1. Every source file should have a unique character string identifying that version of that file. The standard convention, for a file Myfunk.c, is to declare a string at the top of the module using the macro NRCSID (defined in the include file LALRCSID.h):

NRCSID (MYFUNKC, "\044Id\044");

where  $\044 \text{Id}\044$  is expanded by RCS to give the full name and version number of the source file.

2. All functions should have return type void. The first argument of any function should be a pointer to a structure of type Status. Thus:

void Myfunk(Status \*stat, ...)

Since the function has no return code, it must report all errors or failure through the status structure. A function that is passed a NULL pointer in place of the status pointer should abort the program, as this is its only way to report the error. However, this is the only circumstance under which a function sould normally abort; other errors should be trapped, reported in the status structure, and control returned to the calling routine.

3. The first instruction in any function, after variable declarations, should be the macro INITSTATUS(), which takes two arguments: the function's status pointer, and the module's RCS Id string.

INITSTATUS(stat, MYFUNKC);

This macro checks that a valid status pointer has been passed to the function, and if so, initializes the other fields to indicate (by default) nominal execution. If stat is null, the macro causes the program to abort, this being its only way to report that something went wrong.

\* 4. Upon completion, the function should issue the macro RETURN(),\* which takes one argument: the function's status pointer.

RETURN(stat);

This takes the place of any return statements, and may also log status reports to some suitable log file (often stderr), depending on implementation and the value of a global debuglevel parameter. Typically RETURN() is used only for successful completion, with other macros ABORT(), ASSERT(), and TRY() being used to report failure. However, it is possible for the programmer to assign the fields of stat by hand, and then issue RETURN(stat).

5. The standard method to terminate a function unsuccessfully is with the ABORT() macro, which takes three arguments: the status pointer, the status code, and the status description string.

Normally the various error codes and descriptions will be constants defined in the function's header file:

ABORT(stat, MYFUNK EMYERR, MYFUNK MSGEMYERR);

where the error code MYFUNK\_EMYERR and the error message MYFUNK\_MSGEMYERR are defined in the function's header file. Like RETURN(), ABORT() correctly handles any status logging required by the implementation and the debuglevel. Notably, ABORT() does not raise a SIGABRT flag, but instead returns control to the calling routine.

6. Another way to indicate an unsuccessful termination is with the macro ASSERT(), which takes as arguments a test statement, a status pointer, a status code, and a status description. The statement ASSERT(assertion,...); is in all ways equivalent to the statement if(!assertion) ABORT(...);. For instance, in the above example, one might have:

ASSERT (assertion, stat, MYFUNK EMYERR, MYFUNK MSGEMYERR)

Coding purists may argue that ASSERT() should be used only to trap coding errors rather than runtime errors, which would be trapped using ABORT(). In other words, the assertion should always test true in the final debugged program. At present, however, this coding practice is not enforced by the LAL standard.

- 7. If the function is to call other LAL functions as subroutines, four more macros must be used to report possible errors arising in these routines. The macros are ATTATCHSTATUSPTR(), DETATCHSTATUSPTR(), CHECKSTATUSPTR(), and TRY(). The usage of these macros is as follows.
  - a. First, before any subroutines are called, the function must call the macro ATTATCHSTATUSPTR() which takes as its argument the status pointer of the current function:

ATTATCHSTATUSPTR(stat);

This allocates stat->statusPtr, which is the status pointer that will be handed down into any and all subroutines. If the pointer has already been allocated, ATTATCHSTATUSPTR() will abort, as this is symptomatic of a coding error. Note that ATTATCHSTATUSPTR() need only be called once in a given

function, no matter how many subroutine calls that function makes. Normally it should be called immediately after INITSTATUS(). b. When a subroutine is called, it should be handed the statusPtr field of the calling functions status structure, to report its own errors. The calling function should test the returned status code, and either attempt to deal with any abnormal returns, or abort with status code -1. The macro CHECKSTATUSPTR() helps simplify this procedure. It takes one arguments: the status pointer of the current function (not the subroutine). mysubroutine(stat->statusPtr,...); CHECKSTATUSPTR(stat); The TRY() macro is a somewhat more streamlined approach but with equivalent results. It takes two arguments. The first is the subroutine call, and the second is the status pointer. Thus: TRY(mysubroutine(stat->statusPtr,...), stat); The only practical difference between these two approaches is that the TRY() macro takes up only one line, and can also report the name of the failed subroutine call when logging errors. c. After all subroutines have been called, but before any RETURN() statement, the function must call the DETATCHSTATUSPTR() macro, with the status pointer of the current function (not the subroutines) as its argument: DETATCHSTATUSPTR(stat); This simply deallocates stat->statusPtr and sets it to NULL. It is an error to exit the function with non-NULL statusPtr, unless the exit was due to a subroutine failure. ABORT() and ASSERT() check for this automatically; the only place you need to call DETATCHSTATUSPTR() is immediately before RETURN(). 8. The REPORTSTATUS() macro is used to issue a current status report from the current function; the report is printed to stderr or some other implementation-specific stream used for error reporting. REPORTSTATUS() takes the current status pointer as its argument, and iteratively reports down any chain of non-NULL statusPtr structures passed back by subroutines. 9. The top-level main function should start with an empty (all fields set to zero) status structure, as in the following example: int main () static Status status; MYFUNK (&status); REPORTSTATUS (&status);

return 0;

}

```
* Non-Conformant Functions:
* These standards apply only to functions that will be publicly
* available in the LAL libraries. Within a module, a programmer may
* define and use subroutines that do not conform to the LAL function
* standards, provided these routines are only visible within that
* module. Such functions should be declared as static to ensure
* this. A publicly-visible non-conformant function requires special
* dispensation.
* Example:
* As an example to illustrate these standards, here is a pair of
* (rather silly) routines to perform inversion and division of real
* numbers. In the file division.h one might have the following error
* codes and error messages defined:
   #define DIVISION ENULL 1
   #define DIVISION_EDIVO 2
   #define DIVISION_MSGEDIVO "Null pointer"
   #define DIVISION MSGEDIVO "Division by zero"
 tollowed by function prototypes. The file division.c might contain
 the following code:
   static const char *DIVISIONC="\044Id\044";
   ReturnCode InvertREAL4(Status *stat,
                           REAL4 *output,
                           REAL4 input)
     INITSTATUS(stat, DIVISIONC);
     ASSERT (output!=NULL, stat, DIVISION_ENULL, DIVISION_MSGENULL);
     if(input==0.0)
        ABORT (stat, DIVISION EDIVO, DIVISION MSGEDIVO);
      *output = 1.0/input;
      RETURN(stat);
   }
   ReturnCode DivideREAL4(Status *stat,
                           REAL4 *output,
                           REAL4 numerator,
                           REAL4 denominator)
     REAL4 invDenom;
     INITSTATUS(stat, DIVISIONC);
      ATTATCHSTATUSPTR(stat);
      TRY(InvertREAL4(stat->statusPtr,&invDenom,denominator),stat);
      *output = numerator*invDenom;
     DETATCHSTATUSPTR(stat);
     RETURN(stat);
   }
* NOTES
```

```
* Why are the status handling routines written as macros rather than
* functions? There are three good reasons.
* First, many of the handling routines must be able to force an exit
* from the function calling them. This cannot be done if the routine
* is in its own function, except by raising signal flags (which is a
 * Bad Thing according to LAL standards).
* Second, it is useful for these routines to assign a status
* structure's file and line fields using the __FILE__ and __LINE
* macros. If the routine is its own function, then these will just
* give the file and line number where the error handling routine is
* defined. If the routine is a macro, then these will give the file
* and line number where the macro was called, which is much more
* interesting.
* Third, by expanding macros at compile time, the runtime performance
* of the resulting code is marginally better. Most of these macros
will, under nominal conditions, reduce to a single conditional test
* of an integer value, with no additional overhead from function
calling and parameter passing. Thus programmers can be encouraged
* to include extensive error trapping in all their routines, without
 * having to worry about compromising performance.
*_____
*/
#ifndef _LALSTATUSMACROS_H
#define LALSTATUSMACROS H
#ifndef LALMALLOC H
#include "LALMalloc.h"
#ifndef LALMALLOC H
#define _LALMALLOC_H
#endif
#endif
#ifndef LALDATATYPES H
#include "LALDatatypes.h"
#ifndef LALDATATYPES_H
#define _LALDATATYPES_H
#endif
#endif
#ifndef _LALERROR_H
#include "LALError.h"
#ifndef LALERROR H
#define _LALERROR_H
#endif
#endif
#ifndef _LALRCSID_H
#include "LALRCSID.h"
#ifndef LALRCSID H
#define LALRCSID H
#endif
#endif
```

```
MRCSID (LALSTATUSMACROSH, "$Id: LALStatusMacros.h,v 1.2 2000/02/17 19:22:26 jolien E
excern int debuglevel;
                                                                         \
#define INITSTATUS(statusptr, id)
do
{
  INT4 level;
  if(!(statusptr))
      CHAR msq[1024];
      sprintf(msg, "Abort: line %d, file %s, %s\n"
                      Null status pointer passed to function\n",
                      _,__FILE__,(id));
                LINE
      LALAbort (msq);
    }
  level = (statusptr)->level;
  memset((statusptr), 0, sizeof(Status));
  (statusptr)->level = level > 0 ? level : 1 ;
                   = (id);
  (statusptr)->Id
\} while (0)
#define RETURN(statusptr)
  !s:atusptr)->file=_FILE__;
  ...atusptr;->line=_LINE_;
  .: debuglevel==0 ||((debuglevel==1)&&((statusptr)->statusCode==0)))
     return:
    }
  else if((statusptr)->statusCode==0)
      LALPrintError("Nominal[%d]: line %d, file %s, %sn",
              (statusptr)->level, (statusptr)->line, (statusptr)->file,
              (statusptr) -> Id);
      return:
    }
  else
    {
      LALPrintError("Error[%d] %d: line %d, file %s, %s\n"
                   %s\n",(statusptr)->level,
              (statusptr) -> statusCode, (statusptr) -> line,
              (statusptr) ->file, (statusptr) ->Id,
              (statusptr) ->statusDescription);
      return;
    }
} while (0)
#define ABORT(statusptr,code,mesg)
rin
  .statusptr)->file=__FILE__;
  (statusptr)->line= LINE ;
  (statusptr) ->statusCode=(code);
  (statusptr) -> statusDescription = (mesg);
  if((statusptr)->statusPtr)
    {
      LALFree((statusptr)->statusPtr);
      (statusptr)->statusPtr=NULL;
```

```
if(debuglevel==0 || ((debuglevel==1)&&((code)==0)))
      return;
    }
 else if((code) ==0)
    {
      LALPrintError("Nominal[%d]: line %d, file %s, %s\n",
               (statusptr)->level, (statusptr)->line, (statusptr)->file,
               (statusptr)->Id);
      return;
    }
 else
      LALPrintError("Error[%d] %d: line %d, file %s, %s\n"
                        %s\n",(statusptr)->level,(code),
               (statusptr)->line, (statusptr)->file, (statusptr)->Id,
      return:
    ì
} while (0)
#define ASSERT(assertion, statusptr, code, mesg)
do
{
 if(!(assertion))
    {
      (statusptr)->file=__FILE_
      (statusptr) -> line = LINE
      (statusptr)->statusCode=(code);
      (statusptr)->statusDescription=(mesg);
      if((statusptr)->statusPtr)
          LALFree((statusptr)->statusPtr);
          (statusptr)->statusPtr=NULL;
      if(debuglevel==0 || ((debuglevel==1) &&((code)==0)))
        {
          return;
        }
      else if((code) ==0)
          LALPrintError("Nominal[%d]: line %d, file %s, %s\n",
                   (statusptr) ->level, (statusptr) ->line,
                   (statusptr) ->file, (statusptr) ->Id);
          return;
        }
      else
          LALPrintError("Error[%d] %d: line %d, file %s, %s\n"
                             Assertion %s failed: %s\n",
                   (statusptr) ->level, (code), (statusptr) ->line,
                   (statusptr) ->file, (statusptr) ->Id, #assertion,
                   (mesg));
          return;
) while (0)
#define ATTATCHSTATUSPTR(statusptr)
```

```
do
  ASSERT(!(statusptr)->statusPtr, statusptr,-2,
         "ATTATCHSTATUSPTR: non-null status pointer");
  (statusptr) ->statusPtr=(Status *)LALCalloc(1, sizeof(Status));
  ASSERT((statusptr)->statusPtr, statusptr,-4,
         "ATTATCHSTATUSPTR: memory allocation error");
  (statusptr)->statusPtr->level=(statusptr)->level + 1;
} while (0)
#define DETATCHSTATUSPTR(statusptr)
do
  ASSERT((statusptr)->statusPtr, statusptr,-8,
         "DETATCHSTATUSPTR: null status pointer");
  LALFree((statusptr)->statusPtr);
  (statusptr) -> statusPtr=NULL;
\} while (0)
#define TRY(function, statusptr)
do
  (function);
  if((statusptr)->statusPtr->statusCode)
      (statusptr)->file=__FILE__;
      (statusptr)->line= LINE
      (statusptr)->statusCode=-1;
      (statusptr)->statusDescription="Recursive error";
      if(debuglevel>0)
          LALPrintError("Error[%d] %d: line %d, file %s, %s\n"
                              Function call %s failed\n",
                   (statusptr) ->level, -1, (statusptr) ->line,
                   (statusptr) ->file, (statusptr) ->Id, #function);
        }
      return;
    }
} while (0)
#define CHECKSTATUSPTR(statusptr)
do
  if((statusptr)->statusPtr->statusCode)
    {
      (statusptr)->file=__FILE_
      (statusptr)->line=__LINE__;
      (statusptr)->statusCode=-1;
      (statusptr)->statusDescription="Recursive error";
      if(debuglevel>0)
        {
          LALPrintError("Error[%d] %d: line %d, file %s, %s\n"
                              Function call failed\n",
                   (statusptr) ->level, -1, (statusptr) ->line,
                   (statusptr)->file,(statusptr)->Id);
      return;
    }
} while (0)
```





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URL http://proquest.safaribooksonline.com/0672319330

Book: Microsoft Windows 2000 API SuperBible

Section: Chapter 25. PROCESSES, THREADS, AND FIBERS

# Process, Thread, and Fiber Function Descriptions

Table 25.3 lists the process, thread, and fiber functions of the Win32 API. Complete function descriptions follow the table.

Table 25.3.	Process.	Thread.	, and	Fiber	<b>Function</b>	Summary

	able 25.5. Process, Thread, and Fiber Function Summary
Function	Purpose
AttachThreadInput	Redirects input of one thread to another thread.
CancelWaitableTimer	Cancels a waitable timer by setting the timer to the inactive state.
ConvertThreadToFiber	Converts the current thread into a fiber.
CreateEvent	Creates an event object.
CreateFiber	Creates a fiber object.
CreateMutex	Creates a mutex object.
CreateProcess	Creates a process and thread object and starts a process.
CreateProcessAsUser	Creates a process and thread object in the security context of a user.
CreateRemoteThread	Creates a thread that runs in the address space of another process.
CreateSemaphore	Creates a semaphore object.
CreateThread	Creates a thread object and starts a thread.
CreateWaitableTimer	Creates a waitable timer object.
DeleteCriticalSection	Destroys an inactive critical section object.
DeleteFiber	Deletes a fiber object.
DuplicateHandle	Copies the handle of any object so that it can be used by another process.
EnterCriticalSection	Tests a critical section gate, and if unowned, the critical section is entered.
ExitProcess	Ends a process and all the process's threads and returns an exit code.
ExitThread	Ends a single thread of a process.
GetCurrentFiber	Returns the current fiber for the thread.
GetCurrentProcess	Returns the handle of the current process.
GetCurrentProcessId	Returns the ID of the current process.
GetCurrentThread	Returns the handle of the current thread.
GetCurrentThreadId	Returns the ID of the current thread.
GetExitCodeProcess	Returns the exit code of the specified process. Can also be used to determine if the process has been completed.
GetExitCodeThread	Returns the exit code of the specified thread. Can also be used to determine if the given thread has completed.

GetFiberData

Returns the data associated with the fiber object.

GetPriorityClass

Determines the priority class of a process.

GetProcessAffinityMask

Returns the affinity mask for a process.

GetProcessHeap

Returns a handle to the calling process's heap.

GetProcessHeaps

Returns an array of handles that contains all the heaps owned by the calling

process.

GetProcessPriorityBoost

Returns the priority boost for a process.

GetProcessShutdownParameters

Returns the shutdown parameters for a process.

**GetProcessTimes** 

Returns the times the process has been executing.

GetProcessVersion

Returns the Windows version the process expects.

GetProcessWorkingSetSize

Returns the working set size for a process.

GetQueueStatus

Returns the input state of a thread's queue.

GetThreadContext

Used by a debugger to store the machine context of a thread.

GetThreadPriority

Returns the priority class of the given thread.

GetThreadPriorityBoost

Returns the priority boost for a thread.

GetThreadSelectorEntry

Used by debuggers to return the local descriptor table (LDT) entry for a given

selector of the specified thread.

GetThreadTimes

Returns the times a thread has been executing.

InitializeCriticalSection

Constructs a critical section object to protect a section of a multithreaded process

from execution by more than one thread at a time.

InterlockedCompareExchange

Compares the values of a synchronized long.

InterlockedDecrement

Decrements a synchronized long.

InterlockedExchange

Exchanges a value with the value of a synchronized long.

interlockedExchangeAdd

Adds a value to a synchronized long.

InterlockedIncrement

Increments a synchronized long.

LeaveCriticalSection

Marks the end of code protected by a critical section object.

MsgWaitForMultipleObjects

Returns when any or all of the given objects become signaled, a given type of input appears in the specified thread's input queue, or a time-out occurs.

MsgWaitForMultipleObjectsEx

Same as MsgWaitForMultipleObjects, except that an I/O completion or APC causes

the function to also return.

OpenEvent

Returns the handle of a named event object.

OpenMutex

Returns the handle of a named mutex object.

OpenProcess

Returns the handle of a specified process.

OpenSemaphore

Returns the handle of a named semaphore object.

OpenWaitableTimer

Returns the handle of a waitable timer object.

PulseEvent

Changes an event from nonsignaled to signaled and then to nonsignaled again.

Used to free waiting threads and then set the event block again.

QueueUserAPC

Queues a user-mode asynchronous procedure call (APC) object to the APC queue

**Returns** BOOL: If successful, TRUE is returned; otherwise, FALSE is returned.

Include

winbase.h

File

See Also SetProcessShutdownParameters

GetProcessTimes

■ Windows 98 ■ Windows 2000

Description GetProcessTimes retrieves timing information about a specified process. All times are expressed

using FILETIME data structures. For a definition of this structure, see the CompareFileTime function in Chapter 17, "I/O with Files." Process creation and exit times are points in time expressed as the amount of time that has elapsed since midnight on January 1, 1601, GMT. Use the Win32 API functions to convert such values to more useful forms. Process kernel mode and

user mode times are amounts of time elapsed.

Syntax BOOL GetProcessTimes (HANDLE hProcess, LPFILETIME lpCreationTime, LPFILETIME lpExitTime,

LPFILETIME IpKernelTime, LPFILETIME IpUserTime)

**Parameters** 

hProcess HANDLE: An open handle that specifies the process whose timing information is retrieved. This

handle must be created with PROCESS\_QUERY\_INFORMATION access.

IpCreationTime LPFILETIME: A pointer to a FILETIME structure that receives the creation time of the process.

IPEXITIME LPFILETIME: A pointer to a FILETIME structure that receives the exit time of the process. If the

process has not exited, the content of this structure is undefined.

IpKemelTime LPFILETIME: A pointer to a FILETIME structure that receives the amount of time that the process

has executed in kernel mode. This is the sum of the time that each thread owned by the process

has spent in kernel mode.

IpUserTime LPFILETIME: A pointer to a FILETIME structure that receives the amount of time that the process

has executed in user mode. This is the sum of the time that each thread owned by the process

has spent in user mode.

Returns BOOL: If successful, TRUE is returned; otherwise, FALSE is returned. Use the GetLastError

function to retrieve extended error information.

Include File winbase.h

See Also FileTimeToDosDateTime, FileTimeToLocalFileTime, FileTimeToSystemTime

GetProcessVersion

■ Windows 98 ■ Windows 2000

Description GetProcessVersion retrieves the major and minor version numbers of the Windows version on

which a specified process expects to run. The version number returned by this function is the

version number stamped in the image header of the EXE file the process is running.

. Symtax (

 ${\tt DWORD} \; \textbf{GetProcessVersion}(\; {\tt DWORD} \; \textit{ProcessId} \;)$ 

Parameters

Processid DWORD: The process identifier of the process for which to retrieve the version information. If

set to 0, the calling process is used.

Returns DWORD: If successful, the version of Windows on which the process expects to run is

returned. The high word of the return value contains the major version number. The low word of the return value contains the minor version number. If an error occurs, o is returned. Use

the GetLastError to retrieve extended error information.

Include File

winbase.h

See Also

GetProcessWorkingSetSize

**GetProcessWorkingSetSize** 

■ Windows 98 ■ Windows 2000

Description GetProcessWorkingSetSize retrieves the minimum and maximum working set sizes, in

bytes, of a specified process. The working set of a process is the set of memory pages currently visible to the process in physical RAM memory. These sizes affect the

virtual memory paging behavior of a process.

Syntax BOOL GetProcessWorkingSetSize( HANDLE hProcess, LPDWORD lpMinWorkingSetSize,

LPDWORD IpMaxWorkingSetSize)

**Parameters** 

*nProcess* HANDLE: An open handle to the process for which to retrieve the working set sizes.

The handle must have the PROCESS\_QUERY\_INFORMATION access rights.

IpMinWorkingSetSize LPDWORD: A pointer to a variable that receives the minimum working set size, in

bytes, of the specified process. The virtual memory manager attempts to keep at least

this much memory resident in the process whenever the process is active.

IpMaxWorkingSetSize LPDWORD: A pointer to a variable that receives the maximum working set size, in

bytes, of the specified process. The virtual memory manager attempts to keep no more than this much memory resident in the process whenever the process is active

when memory is in short supply.

Returns BOOL: If successful, TRUE is returned; otherwise, FALSE is returned. Use the

GetLastError function to retrieve extended error information.

Include File winbase.h

See Also SetProcessWorkingSetSize

GetQueueStatus

■ Windows 98 ■ Windows 2000

Description GetQueueStatus returns the status of the calling thread's message queue. The status indicates the

type of messages found in the queue. The presence of a QS\_ flag in the return value does not guarantee that a subsequent call to the PeekMessage or GetMessage function will return a message. These functions perform some internal filtering that can cause the message to be

processed internally.

Syntax DWORD GetQueueStatus( UINT uFlags )

**Parameters** 

uFlags

UINT: Indicates the type of messages for which to check. This can be one or more of the values

listed in Table 25.10.

Table 25.10. Queue Status Types

 Value
 Meaning

 QS\_ALLEVENTS
 An input message (WM\_TIMER, WM\_PAINT, WM\_HOTKEY) or posted message is in the queue.

 QS\_ALLINPUT
 Any message is in the queue.

 QS\_ALLPOSTMESSAGE
 A posted message is in the queue.

 QS\_HOTKEY
 A WM\_HOTKEY message is in the queue.

 QS\_INPUT
 An input message is in the queue (QS\_KEY or QS\_MOUSE).

```
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        Items
                 Description
Set
                FUNCTION? ?(7N) VERSION
        13809
Sl
                 SOURCE()CODE OR PROGRAMMING()LANGUAGE? ? OR OOPL
        158623
S2
          479
                 S1(100N)S2
S3
          3427
                 VERSION() (NUMBER OR NO OR ID)
S4
S5
                 S4(10N) FUNCTION? ?
           89
S6
           4
                 S5 (100N) S2
          62 RD S5 (unique items)
: $7
```

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IE Tracks Down the Bugs.

Methvin, Dave WinMag.com, NA

Dec 11, 2000 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 831 LINE COUNT: 00062

TEXT:

...to Microsoft to help them debug the problem. MS Support article Q276550 describes the basic function of the software. The new version number they give for IE only applies if you have IE 5.5, the numbers will

(Item 2 from file: 275) 7/3, K/2

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IE Tracks Down the Bugs. (Product Support) (Tutorial)

Methvin, Dave

WinMag.com, NA

Dec 13, 2000

POCUMENT TYPE: Tutorial LANGUAGE: English RECORD TYPE: Fulltext;

Abstract

WORD COUNT: 831 LINE COUNT: 00062

...to Microsoft to help them debug the problem. MS Support article Q276550 describes the basic function of the software. The new version number they give for IE only applies if you have IE 5.5, the numbers will

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Gravity Storm Tackles Service Packs. (Product Announcement)

ENT, 5, 1, 12 Jan 12, 2000

DOCUMENT TYPE: Product Announcement

ISSN: 1085-2395 LANGUAGE:

English RECORD TYPE: Fulltext

WORD COUNT: 206 LINE COUNT: 00020

workstation. Checked off machines appear in a second pane showing the machine's Windows NT version number; function; Service Pack number; Service Pack download date; and encryption strength. Clicking on a

machine in...

(Item 4 from file: 275) 7/3,K/4

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SUPPLIER NUMBER: 19769757 (USE FORMAT 7 OR 9 FOR FULL TEXT) 02109480

Build dynamic web pages: beyond CGI. (Microsoft NSAPI and Netscape ISAPI are more flexible than CGI) (Internet/Web/Online Service Information)

McClanahan, David

Databased Web Advisor, v15, n9, p46(6)

Sep, 1997

RECORD TYPE: Fulltext; Abstract ISSN: 1090-6436 LANGUAGE: English

WORD COUNT: 3796 LINE COUNT: 00346

... HttpExtensionProc(). For ISAPI filters the corresponding functions are GetFilterVersion() and HttpFilterProc(). IIS calls the GetxxxVersion() function at initialization to get the .DLL's version number and description string. IIS calls the HttpxxxProc() function whenever a user (a web page) invokes this ISAPI application. The HttpxxxProc() function is the...

#### 7/3,K/5 (Item 5 from file: 275)

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02062153 SUPPLIER NUMBER: 19387792 (USE FORMAT 7 OR 9 FOR FULL TEXT) BindView Scores With NOSadmin. (BindView Development NOSadmin for Windows NT 5.0 network management software) (PC Week Netweek) (Software Review) (Evaluation)

Sturdevant, Cameron

PC Week, v14, n18, p115(2)

May 5, 1997

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English

PECORD TYPE: Fulltext; Abstract

WORD COUNT: 1260 LINE COUNT: 00105

older siblings NOSadmin for NetWare 3.x and 4.x; hence the reason for its version number. The tool fills a specific and somewhat unique network management function by providing live access to NT server and domain configuration information through centralized reports, allowing...

#### 7/3,K/6 (Item 6 from file: 275)

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02036287 SUPPLIER NUMBER: 19054521 (USE FORMAT 7 OR 9 FOR FULL TEXT) E-mail: old meets new. (proprietary and Internet e-mail offerings)

(Technology Information)

Hurwicz, Mike

LAN Magazine, v12, n2, p87(5)

Feb, 1997

ISSN: 1069-5621 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 4680 LINE COUNT: 00391

 $\dots$  5, released at the end of 1996, rounds out those offerings, adding calendaring and scheduling **functions** .

Microsoft Exchange Server 4.0--despite its **version number** --is a first-generation product that was introduced only last year. Though it is relatively...

#### 7/3,K/7 (Item 7 from file: 275)

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02031802 SUPPLIER NUMBER: 19096785

Under the hood. (bypassing empty drives in multiple CD-ROM drives) (Technology Tutorial)

D'Agostino, Peter

Windows Tech Journal, v6, n2, p34(4)

Feb, 1997

ISSN: 1061-3501 LANGUAGE: English RECORD TYPE: Abstract

...ABSTRACT: functions of MSCDEX used to identify empty CD drives include the CD-ROM Drive Check  $\,$  function , the MSCDEX  $\,$  version  $\,$  number  $\,$  and the Send Device Request.

7/3,K/8 (Item 8 from file: 275)
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01966109 SUPPLIER NUMBER: 18537281

Q & A C++. (Question and Answer)

DiLascia, Paul

Microsoft Systems Journal, v11, n9, p103(4)

Sep. 1996

ISSN: 0889-9932 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2462 LINE COUNT: 00190

... MFC code is compiled into your EXE file. In the latter case, your code calls functions in a DLL MFCxxD.DLL, where xx is the version number and D indicates the debug version of the DLL. For example, my \WINDOWS \SYSTEM directory...

7/3,K/9 (Item 9 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01933827 SUPPLIER NUMBER: 18252925 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Roll your own persistence implementations to go beyond the MFC frontier. (developing a persistence implementation that is not integrated with MFC, but that can coexist with MFC) (Technology Tutorial) (Tutorial)

Holub, Allen

Microsoft Systems Journal, v11, n6, p31(16)

June, 1996

DOCUMENT TYPE: Tutorial ISSN: 0889-9932 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 7336 LINE COUNT: 00593

... first argument. The second argument tells you the direction (loading from or flushing to disk). **Version - number** support is provided here by means of a virtual **function** (the MFC implementation used the schema argument to the IMPLEMENT...

...SERIAL macro). Override the version function with one that returns the correct version number for the class definition. This way an error will be returned if you try to...out a 126-byte block that contains the class name followed by a two-byte version number. It then calls your Serialize function to get the data out on the disk. Remember that all persistent objects derive from...

7/3,K/10 (Item 10 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01853941 SUPPLIER NUMBER: 17507761 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Network management. (LAN Buyers Guide Issue) (Buyers Guide)

LAN Magazine, v10, n10, p201(51)

Oct 15, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 1069-5621 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 48741 LINE COUNT: 04035

... card throughput, protocols bound to each NIC and frame types used, and NOSs the current **version number**. Control **functions** include remote command execution and threshold settings. It also works with NMS, SunNet Manager, HP...

7/3,K/11 (Item 11 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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\*1353035 SUPPLIER NUMBER: 17424976 (USE FORMAT 7 OR 9 FOR FULL TEXT) Building sticky windows. (providing persistent window states under Windows

95) (PC Tech: Power Programming) (Column) (Tutorial)

Prosise, Jeff

PC Magazine, v14, n19, p355(6)

Nov 7, 1995

DOCUMENT TYPE: Column Tutorial ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3722 LINE COUNT: 00376

... defaults to "Version 1.0." If you'd like, you could add a SetVersionNumber member function to CSmartFrameWnd allowing the version number to be set programmatically without modifying CSmartFrameWnd's source code.

The approach that CSmartFrameWnd takes...

7/3,K/12 (Item 12 from file: 275)

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01837991 SUPPLIER NUMBER: 17454773 (USE FORMAT 7 OR 9 FOR FULL TEXT)

HTTP Server for Windows NT. (version 0.96; European Microsoft Windows NT Academic Centre) (one of five evaluations of World Wide Web server software in "Windows NT Based Servers What's The Rush") (Software Review) (Evaluation)

keichard, Kevin

PC Magazine, v14, n17, p239(1)

Oct 10, 1995

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 838 LINE COUNT: 00071

... for freeware, the documentation is remarkably complete.) Map files are fully supported using the ISMAP function. And as for the reliability issue, even though the version number is 0.96, the EMWAC HTTP server has a reputation for being a reliable, low...

7/3,K/13 (Item 13 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01832965 SUPPLIER NUMBER: 17103179 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Conflict Catcher 3. (Casady & Greene extension-management utility)

(Software Review) (Evaluation)

Schorr, Joseph

Macworld, v12, n9, p69(1)

Sep, 1995

DOCUMENT TYPE: Evaluation ISSN: 0741-8647 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 617 LINE COUNT: 00054

on any listed file displays even more detailed information about it, such as its icon, version number, type/creator code, and a

description of its function .

The program lets you color-code start-up files in list views--you can have...

7/3,K/14 (Item 14 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01820659 SUPPLIER NUMBER: 17385086 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A VxD for system profiling. (Tutorial)

Plooy, Ton

Windows-DOS Developer's Journal, v6, n7, p39(8)

July, 1995

DOCUMENT TYPE: Tutorial ISSN: 1059-2407 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2567 LINE COUNT: 00193

... Device macro. irq0.asm exports two functions, one to get the version number and the other to install a DLL callback function for the interrupt handler to call.

The third part of the code is the interrupt...

7/3,K/15 (Item 15 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01790329 SUPPLIER NUMBER: 16440469 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The ultimate Windows version detector. (Windows NT programming techniques)
(Technical) (Tutorial)

Tomlinson, Paula

Windows-DOS Developer's Journal, v6, n2, p7(11)

Feb, 1995

DOCUMENT TYPE: Technical Tutorial ISSN: 1059-2407 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2826 LINE COUNT: 00222

#### TEXT:

...the previous version, with backwards compatibility fully intact. You could simply call the Windows API function GetVersion() to obtain the current Windows version number, which would be all you'd need to know about which operating system you were...

... shell of some kind. For completeness, dostest.exe displays the information returned from INT 21h, function 30h.

Next, dostest.exe displays the **version number** retrieved by INT 21h, **function** 3306h. Recall that INT 33h, subfunctions 00h and 01h are used to get and set...

7/3,K/16 (Item 16 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01724274 SUPPLIER NUMBER: 16114649 (USE FORMAT 7 OR 9 FOR FULL TEXT) System Architect 3.0. (Popkin Software & Systems' CASE tool) (Software Review) (Evaluation)

Linthicum, David

DBMS, v8, n1, p62(4)

Jan, 1995

DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1951 LINE COUNT: 00158

...ABSTRACT: development is supported either through merging on single-user versions or by using the network **version**. **No** code-generation **function** is provided, but a convenient reverse-engineering facility is an excellent tool for reading existing...

7/3,K/17 (Item 17 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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SUPPLIER NUMBER: 16245671 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The origins of DOS: DOS creator gives his view of relationship between CP/M, MS-DOS. (Tim Paterson) (Letter to the Editor)

Paterson, Tim

Microprocessor Report, v8, n13, p23(3)

Oct 3, 1994

DOCUMENT TYPE: Letter to the Editor ISSN: 0899-9341 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT WORD COUNT: 2461 LINE COUNT: 00182

... every last CP/M function call. For example, MS-DOS did not implement CP/M function 12 (0CH) to get the system version number . Somewhat unaccountably, MS-DOS instead used (and still uses) function 0CH to read the keyboard." This one change would likely have caused most CP/M ...

7/3,K/18 (Item 18 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01710804 SUPPLIER NUMBER: 16181702 (USE FORMAT 7 OR 9 FOR FULL TEXT) Windows questions & answers. (Column)

Bonneau, Paul

Windows-DOS Developer's Journal, v5, n8, p6(10)

August, 1994

DOCUMENT TYPE: Column ISSN: 1059-2407 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2754 LINE COUNT: 00248

... and 3. Function 0 is the easy one, since all it does is return the version number of the VxD in the AX register. Function 3 is used to create a VM.

Function 3 accepts a far pointer to a...

7/3,K/19 (Item 19 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01697677 SUPPLIER NUMBER: 16197462 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Investigating the hybrid windowing and messaging architecture of Chicago.

(Microsoft's Chicago operating system) (Technical)

Pietrek, Matt

Microsoft Systems Journal, v9, n9, p15(14)

Sept, 1994

DOCUMENT TYPE: Technical ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 12182 LINE COUNT: 00926

... rationale behind this behavior is that many Windows 3.x programs didn't check the **version number** correctly, and broke when the Chicago GetVersion **function** returned 4.0. After studying many programs, the Microsoft coders concluded that returning version 3 up for this kludge, Microsoft included a GetVersionEx **function** in Chicago that is promised to always return the correct **version number**.

In Win32-based programs, the meaning of the high WORD returned from  ${\tt GetVersion}$  has been...

7/3,K/20 (Item 20 from file: 275)

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01693979 SUPPLIER NUMBER: 16176386 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Assign your own version control. (determining version control numbers for
legacy database files) (Integration Database Tools) (Column) (Tutorial)
Watterson, Karen

Windows Sources, v2, n9, p187(2)

Sept, 1994

DOCUMENT TYPE: Tutorial ISSN: 1065-9641 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1362 LINE COUNT: 00100

... 4.0 databases often require different ODBC drivers.

While Paradox for Windows comes with a **function** called VERSION() that returns a string containing the **version number** of Paradox currently being used, the program does not provide an equivalent way to find...

7/3,K/21 (Item 21 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01685398 SUPPLIER NUMBER: 15512343 (USE FORMAT 7 OR 9 FOR FULL TEXT)
More power for WINCMD. (PC Tech) (Utilities) (includes related articles on
new features in WINCMD 1.3 and WCLIB 1.1, guide to the utilities and how
to obtain them) (Tutorial)

Boling, Douglas

PC Magazine, v13, n12, p282(7)

June 28, 1994

DOCUMENT TYPE: Tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6016 LINE COUNT: 00466

... present by using the LIBVER command. LIBVER's single parameter is the name of a function library, such as WCLIB or WCL2. The function returns the version number of the library or 0 if the library is not loaded.

An example of a...

7/3,K/22 (Item 22 from file: 275)
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01680875 SUPPLIER NUMBER: 15343724 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A VxD to monitor DOS output. (includes related article on acquiring a VxD
ID from Microsoft Corp) (Tutorial)

Bonneau, Paul

Windows-DOS Developer's Journal, v5, n5, p23(18)

May, 1994

DOCUMENT TYPE: Tutorial ISSN: 1059-2407 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6081 LINE COUNT: 00471

... point is stored in the global variable lpfnVxD. LibMain() then calls through lpfnVxD, placing the **function** number apiGetVersion in AX, to obtain the **version** number of the DLL. If it is less than the version number the DLL was built...

7/3,K/23 (Item 23 from file: 275)
i:IALOG(R)File 275:Gale Group Computer DB(TM)
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01680874 SUPPLIER NUMBER: 15343658 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Virtualizing a DOS device driver with a VxD. (includes related article on
Program Segment Prefixes) (Tutorial)

Tomlinson, Paula

Windows-DOS Developer's Journal, v5, n5, p6(14)

May, 1994

DOCUMENT TYPE: Tutorial ISSN: 1059-2407 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6055 LINE COUNT: 00478

... with what request sizes. For demonstration purposes, TestVxD calls the Stealth VxD's get version **function** and displays both the **version** number (returned in AX) and the last read length (returned in BX as a debugging variable...

7/3,K/24 (Item 24 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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Ol680279 SUPPLIER NUMBER: 15355996 (USE FORMAT 7 OR 9 FOR FULL TEXT) Switch Windows setups with Switcher. (PC Magazine's utility) (includes related articles on top 10 utilities and sources of PC Magazine's utilities) (PC Tech: Utilities) (Column)

Boling, Douglas

PC Magazine, v13, n10, p311(6)

May 31, 1994

DOCUMENT TYPE: Column ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3913 LINE COUNT: 00305

for Windows programs. Some items cannot be set--for example, the mouse type and driver version number. If you try to set these items, the function returns an error code. The final action, GetProfileFilename, is handy for locating the mouse-profile...

7/3,K/25 (Item 25 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01618490 SUPPLIER NUMBER: 14397480 (USE FORMAT 7 OR 9 FOR FULL TEXT) Writing DOS utilities with DEBUG, part 2. (Tutor)(Column) (Tutorial) Prosise, Jeff

PC Magazine, v12, n17, p347(4)

Oct 12, 1993

DOCUMENT TYPE: Tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2308 LINE COUNT: 00169

...ABSTRACT: DOS function 2Ah returns the current date. DOS function 2Ch returns the current time. DOS **function** 30h returns the DOS **version number**. Although these are only three of the many programming services available through DOS, they are...

... which returns the current date; DOS function 2Ch, which returns the current time; and DOS **function** 30h, which returns the DOS **version number**. These are but three of the dozens of programming services that DOS provides, but they...

... The instruction CMP AL,3 compares the value in register AL (which holds the major version number after a call to DOS function 30h) to 3. Then the instruction JB 0180 jumps to 0180h if the value in...

...MOV AH,4C INT 21

N GETVER.COM

RCX

8 W

W

GETVER calls DOS function 30h to get the major version number in AL. Then it invokes DOS function 4Ch to terminate itself. Recall from the last issue that when function 4Ch is invoked...back to GETVER2.COM. After the major and minor version numbers are obtained by calling function 30h, the instruction MOV DH, AH transfers the minor version number to the DH register, which serves as a temporary storage location. Next, the instructions

MOV...

7/3,K/26 (Item 26 from file: 275)
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01584125 SUPPLIER NUMBER: 13422064 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Add-ons extend Visual Basic's capabilities. (Software Review) (PC Week Supplement: Development Tools) (Evaluation)

Sullivan, Eamonn

PC Week, v10, n6, pS9(2)

Feb 15, 1993

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1531 LINE COUNT: 00121

... C programmers who are developing custom controls. For example, we could use one of the **functions** to get the **version number** of Visual Basic or to detect when a Visual Basic control changes the Windows palette

7/3,K/27 (Item 27 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01550637 SUPPLIER NUMBER: 13037415 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Documentation and on-line help make good partners. (Software Buyer's Guide:
Project Managers) (Installation, Help and Support) (includes related
article on buying tips)

Gilliland, Steve

FC Sources, v3, n12, p453(2)

Dec, 1992

ISSN: 1052-6579 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1114 LINE COUNT: 00087

... by a pull-down menu, it isn't context-sensitive, and offers nothing but a **function** -key list; the **version number** of the project; and a tutorial choice that drops you out of the project on...

7/3,K/28 (Item 28 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01549597 SUPPLIER NUMBER: 13039963 (USE FORMAT 7 OR 9 FOR FULL TEXT) Identify the running DOS application from Windows. (Tutorial)

Bonneau, Paul

Windows-DOS Developer's Journal, v3, n12, p26(10)

Dec, 1992

DOCUMENT TYPE: Tutorial ISSN: 1059-2407 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3003 LINE COUNT: 00223

... code for the VxD, DosName. DosName provides three protected-mode API services: return the VxD  $\,$  version  $\,$  number  $\,$ , register a callback function  $\,$ , and get the name of the current task in a DOS session identified ry VM...

7/3,K/29 (Item 29 from file: 275)

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01541038 SUPPLIER NUMBER: 12741205 (USE FORMAT 7 OR 9 FOR FULL TEXT)

R:BASE 3.1D: 4.0 for your 286. (data base management system, Intel 80286 microprocessor) (Brief Article)

Downall, Bill

Data Based Advisor, v10, n10, p77(2)

Oct, 1992

DOCUMENT TYPE: Brief Article ISSN: 0740-5200 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 559 LINE COUNT: 00040

... to check for R:BASE version and branch accordingly. Your code should check for the **version number** with the (CVAL('Version')) **function**. Code for 3.1D users should still ZIP RETURN, but 4.0 users should simply...

7/3,K/30 (Item 30 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01535961 SUPPLIER NUMBER: 12658521 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tracking file versions: here's a Turbo Pascal utility that will
automatically add version numbers to your filenames. (Solutions:
Languages) (Column)

Terdeman, Sharon

PC Magazine, v11, n17, p414(2)

Oct 13, 1992

DOCUMENT TYPE: Column ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 440 LINE COUNT: 00033

... we must forfeit extensions for such files because there's nowhere else to keep the **version** number .

As originally written, RENVER renamed files by using the Exec function to invoke a secondary copy of COMMAND.COM. Since Turbo Pascal has its own Rename...

7/3,K/31 (Item 31 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01519885 SUPPLIER NUMBER: 12202682 (USE FORMAT 7 OR 9 FOR FULL TEXT) A smooth segue between Clipper and NetWare. (HRF Associates Inc.'s SEGUE application programming interface) (Software Review) (Evaluation)

Mueller, John

Data Based Advisor, v10, n4, p18(2)

April, 1992

DOCUMENT TYPE: Evaluation ISSN: 0740-5200 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1318 LINE COUNT: 00125

TEXT:

...at the back of the book. In addition, each function tells you < what Novell API function is being implemented, as well as the API version number in which the function first appeared. However, one thing the descriptions were lacking was an example of how to...

7/3,K/32 (Item 32 from file: 275)
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01501035 SUPPLIER NUMBER: 11987265 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Readers' forum. (subjects discussed include terminate-and-stay-resident
programs, Hungarian notation, programming problems and the journal name)
(Letter to the Editor)

Edmead, Mark T.; McNamee, John; Rubin, Joel M.; Tilton, Homer B.; Wilson, Chris

Windows-DOS Developer's Journal, v3, n2, p76(4)

Feb, 1992

DOCUMENT TYPE: Letter to the Editor ISSN: 1059-2407 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1878 LINE COUNT: 00140

... for the DOS version number to be returned to this program if the Get DOS Version Number function is called by the program. Evidently,

this is part of the SETVER system. I was...

7/3,K/33 (Item 33 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01496432 SUPPLIER NUMBER: 11719816 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Ouestions & answers: MS-DOS. (Column)

Prosise, Jeff

Microsoft Systems Journal, v7, n1, p119(4)

Jan-Feb, 1992

DOCUMENT TYPE: Column ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2657 LINE COUNT: 00193

... DOS version that's running (for example, the 5 in 5.0) and the minor version number in BH. On the surface, this might seem unnecessary, since function 30H also returns version information. However, function 3306H is not affected by the SETVER command...

7/3,K/34 (Item 34 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

\*\*: 1496430 SUPPLIER NUMBER: 11719812 (USE FORMAT 7 OR 9 FOR FULL TEXT) Creating graphics import filter libraries for Windows applications.

(Tutorial)

Welch, Kevin P.

Microsoft Systems Journal, v7, n1, p101(12)

Jan-Feb, 1992

DOCUMENT TYPE: Tutorial ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3542 LINE COUNT: 00283

... filter has not been previously loaded, the application loads the library and calls the GetFilterInfo function. The application passes GetFilterInfo its version number and a pointer to a copy of the optional configuration data from the filter's WIN.INI entry. The GetFilterInfo function then checks the version number and uses the optional configuration data to define conversion parameters. If the filter displays a...

7/3,K/35 (Item 35 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01496427 SUPPLIER NUMBER: 11719806 (USE FORMAT 7 OR 9 FOR FULL TEXT) Strategies and techniques for writing state-of-the-art TSRs that exploit MS-DOS 5. (terminate-and-stay-resident programs) (tutorial) (Cover Story)

Boling, Douglas

Microsoft Systems Journal, v7, n1, p41(19)

'ar-Feb, 1992

COCUMENT TYPE: Cover Story ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6309 LINE COUNT: 00477

... save the current memory allocation configuration.

The addition of the SETVER command means the Get Version Number (
Function 30H) call cannot be relied upon to return the true version of
DOS. This can...

7/3,K/36 (Item 36 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

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01494230 SUPPLIER NUMBER: 11680198 (USE FORMAT 7 OR 9 FOR FULL TEXT) What's the code? (designing a file finder utility) (Tech Section) (Tutorial)

Stafford, David

Computer Shopper, v12, n1, p707(2)

Jan, 1992

DOCUMENT TYPE: Tutorial ISSN: 0886-0556 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1550 LINE COUNT: 00118

... source code. Let's look at it step by step.

main() first checks the DOS version number because the FullName()
function requires 3.0 or later. Next it checks Argc to verify that the
program received...

7/3,K/37 (Item 37 from file: 275)
DTALOG(R)File 275:Gale Group Computer DB(TM)
(\*\*\ 2004 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 11122947 (USE FORMAT 7 OR 9 FOR FULL TEXT) Expand batch file versatility with STRINGS.COM.

Boling, Douglas

PC Magazine, v10, n15, p419(9)

Sept 10, 1991

ISSN: 0888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 5044 LINE COUNT: 00379

... batch files in determining the system configuration: VER, ASK, ENVFREE, ENVSIZE, and MASTERVAR.

The VER **function** returns a string containing the current DOS **version number**. The major version number is reported in the hundreds position, and the minor version numbers...

7/3,K/38 (Item 38 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01449939 SUPPLIER NUMBER: 11295365 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A BASIC approach to programming in Windows, part I. (Lab Notes) (Microsoft Windows graphical user interface) (includes related article on using WordBasic in the Word for Windows working model) (tutorial)

Schulman, Andrew

PC Magazine, v10, n17, p393(9)

Oct 15, 1991

DOCUMENT TYPE: tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5633 LINE COUNT: 00429

... through the 3-pound Microsoft Windows Programmer's Reference, you will eventually find the GetVersion() function. It returns a 2-byte value with Windows' major version number (for example, 3) in the low byte and the minor version or revision number (for...

7/3,K/39 (Item 39 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01441781 SUPPLIER NUMBER: 10991030 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Lanport-II solves comm server ills. (Hardware Review) (Microtest's
Lanport-II communications server; includes a related article on
Lanport-II's command interface) (evaluation)
Hurwicz, Mike
LAN Magazine, v6, n7, p126(8)

July, 1991

DOCUMENT TYPE: evaluation ISSN: 0898-0012 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4492 LINE COUNT: 00343

... enter the name of one of them.) Finally, you can list the Lanport-II firmware  ${\bf version}$   ${\bf number}$  .

In addition, the "directory listing" function is more flexible when used from the command line: You can provide a file specification...

7/3,K/40 (Item 40 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

11418322 SUPPLIER NUMBER: 09805521 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An introduction to the DOS Protected Mode Interface. (Power Programming)
 (Column) (tutorial)

Duncan, Ray

PC Magazine, v10, n3, p365(5)

Feb 12, 1991

DOCUMENT TYPE: tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2865 LINE COUNT: 00222

... implied mode switch.

\* The Miscellaneous Services include address conversions, coprocessor management, debugging support, and a **function** to get the DPMI **version** number .

Nearly all of these DPMI functions are intended only for DOS extenders; they would ordinarily never be called directly by an...

7/3,K/41 (Item 41 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01389886 SUPPLIER NUMBER: 09577619 (USE FORMAT 7 OR 9 FOR FULL TEXT)
One developer's appraisal of the New dBASE IV. (includes related article on user opinions of dBASE IV) (evaluation)

Buzzard, James

Data Based Advisor, v8, n11, p85(5)

Nov, 1990

DOCUMENT TYPE: evaluation ISSN: 0740-5200 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3689 LINE COUNT: 00285

... either check your dBASE directory for the date on DBASE.EXE or use the VERSION() function to get the "true" version number ("? VERSION(1)" returns "dBASE IV 1.1xx500 (07/17/90)" on my disks).

Faster installation...

7/3,K/42 (Item 42 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

01362778 SUPPLIER NUMBER: 08559220 (USE FORMAT 7 OR 9 FOR FULL TEXT) The authorised version. (the right way to program the latest EMS specification version 4.0)

Clifford, D.A.

EXE, v5, n1, p24(5)

June, 1990

ISSN: 0268-6872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2391 LINE COUNT: 00180

... functions may be used where an EMS V3.0 handler is in operation (see Get Version Number Function), or where the interrupt handler is

7/3,K/43 (Item 43 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01311325 SUPPLIER NUMBER: 07736544 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Getting inside PC viruses. (Vienna Virus, Jerusalem Virus, Cascade Virus
and New Zealand Virus) (includes related article on Brain and Italian
viruses)

Hirst, Joe

Tech PC User, v1, n9, p22(5)

May, 1989

ISSN: 0954-6995 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 4407 LINE COUNT: 00316

... positive response is received by a virus attached to a COM file (and the returned version number is not less than three), another DOS function (INT 21H, function DDH) will be called. This will cause the resident version of the virus to move...

7/3,K/44 (Item 44 from file: 275)
::IALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01310147 SUPPLIER NUMBER: 07585718 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Getting the most from expanded memory with an EMS function library.

(Expanded Memory Specification Version 4.0)

Boling, Douglas

Microsoft Systems Journal, v4, n5, p15(19)

Sept, 1989

ISSN: 0889-9932 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 5715 LINE COUNT: 00438

... indicates the function was completed with no errors. The EMM version is determined by calling **function** 7, Get Version. The **version** number is returned as a B CD byte in AL.

The page frame segment can be...

7/3,K/45 (Item 45 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01305966 SUPPLIER NUMBER: 07421866 (USE FORMAT 7 OR 9 FOR FULL TEXT) Power programming. (expanded memory management)

Duncan, Ray

\* Madazine, v8, n14, p379(5)

August, 1989

ISSN: U888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 1970 LINE COUNT: 00149

... to make sure the expanded memory hardware is present and working properly. Next, the "get version number" function should be called; this ensures that all of the EMS functions the program needs are...

7/3,K/46 (Item 46 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01300982 SUPPLIER NUMBER: 07388314 (USE FORMAT 7 OR 9 FOR FULL TEXT) Extended memory specification 2.x: taking advantage of the 80286 protected mode. (includes related article on extended memory specification functions)

Anderson, Chip

Microsoft Systems Journal, v4, n4, p17(10)

July, 1989

ISSN: 0889-9932 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4065 LINE COUNT: 00312

... functions. These functions will help give your programs instant access to more memory.

Get XMS Version Number (Function 00h) ARGS: AH = 00h RETS: AX = XMS version number BX = Driver internal revision number DX = 0001h if the HMA exists, 0000h otherwise

This function...

7/3,K/47 (Item 47 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2004 The Gale Group. All rts. reserv.

01297257 SUPPLIER NUMBER: 07596993 (USE FORMAT 7 OR 9 FOR FULL TEXT) PM functions in non-PM programs. (Presentation Manager) (Environments)

Petzold, Charles

PC Magazine, v8, n11, p343(6)

June 13, 1989

(column)

DOCUMENT TYPE: column ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2725 LINE COUNT: 00210

 $\dots$  program doesn't get loaded and so never even gets an opportunity to check the **version number** .

THE ALLOWABLE FUNCTIONS

Now that we have seen how some Presentation Manager functions can be used in a...

7/3,K/48 (Item 48 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2004 The Gale Group. All rts. reserv.

01289560 SUPPLIER NUMBER: 07126822 (USE FORMAT 7 OR 9 FOR FULL TEXT) Drawing out DESQview power. (Quarterback Office Systems' DESQview

application program interface)

Hitt, Frederick J.

PC Tech Journal, v7, n4, p46(12)

April, 1989

1SSN: 0738-0194 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 8352 LINE COUNT: 00676

... the function returns with an error code in AL and BX unchanged. Under DESQview, the **function** returns the DESQview **version number** in BX.

7/3,K/49 (Item 49 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

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01213709 SUPPLIER NUMBER: 06142820 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Intro to OS-2 function calls. (OS-2 CALL-based API)

Fetzold, Charles

PC Magazine, v6, n18, p375(6)

Oct 27, 1987

ISSN: 0888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 2897 LINE COUNT: 00224

 $\dots$  version. The single parameter is a far pointer to a word that will receive the **version** number . You first indicate that this **function** is

external and requires a far call: EXTRN DOSGETVERSION: FAR In the data segment of...

...VERSION on the stack: PUSH DS PUSH OFFSET VERSION CALL DOSGETVERSION On return from the **function**, the high byte of VERSION will be the major **version number** and the low byte will be the minor version number. (The OS/2 Kernel included with the Microsoft OS/2 Software Development Kit returns a **version number** of 10.0.)

DOSBEEP and DOSGETVERSION are relatively simple **function** calls, of course. Many of the other OS/2 functions are more complex. DOSOPEN, for...

7/3,K/50 (Item 50 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01213483 SUPPLIER NUMBER: 06077254 (USE FORMAT 7 OR 9 FOR FULL TEXT) OS-2 program entry conditions.

Petzold, Charles

PC Magazine, v6, n20, p371(5)

Nov 24, 1987

ISSN: 0888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 2851 LINE COUNT: 00219

... and about the hardware of the computer. DOSGETVERSION, for example, will return the OS/2 version number.

You can use the DOSDEVCONFIG function to determine the hardware including the number of printers, RS-232...

7/3,K/51 (Item 51 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01212851 SUPPLIER NUMBER: 05158842 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Mouse software: see how they run. (mouse add-on utilities)

Prosise, Jeff

PC Magazine, v6, n13, p411(10)

July 21, 1987

ISSN: 0888-8507 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 6860 LINE COUNT: 00523

... to define default values for any and all registers and to revert to them instantly. **Function** FAh returns the RIL **version number** and whether or not the mouse driver is present.

The Programmer's Reference also outlines...

7/3,K/52 (Item 52 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01207940 SUPPLIER NUMBER: 04689661 (USE FORMAT 7 OR 9 FOR FULL TEXT) WindowDOS. (Software Review) (DOS shells) (evaluation)

Pepper, Jon

FC Magazine, v6, n4, p218(2)

Feb 24, 1987

DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 780 LINE COUNT: 00058

... will need them or like them. For example, Ctrl-E will pop up an Environment function that displays RAM usage, computer type, DOS version number, ROM date, and the memory load and interrupt vectors used by each program. This feature...

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2004 The Gale Group. All rts. reserv.

Supplier Number: 61592640 (USE FORMAT 7 FOR FULLTEXT)

News; Big screen in the Big Apple.

Bloomfield, Larry

Broadcast Engineering, pNA

March, 2000

Record Type: Fulltext Language: English

Document Type: Magazine/Journal; Trade

Word Count: 3402

area.

The Program Identifier executes a channel change based upon a program's episode and version number. Use of this function would permit a broadcaster to direct a viewer's attention to a broadcast of a...

7/3,K/54 (Item 2 from file: 636)

TALOG(R) File 636: Gale Group Newsletter DB(TM)

100 2004 The Gale Group. All rts. reserv.

Supplier Number: 41096443 (USE FORMAT 7 FOR FULLTEXT) 01187450

Folio Corporation: On a Clear Day, the Views Are Very Fast

Electronic Services Update, pN/A

Jan, 1990

Record Type: Fulltext Language: English

Document Type: Magazine/Journal; Trade

Word Count: 1229

there is no denying that the true power of the system lies in the full- function version . No matter how thoroughly an infobase is menued, linked and otherwise prepared, the structure reflects the...

7/3,K/55 (Item 1 from file: 16)

DIALOG(R) File 16: Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

Supplier Number: 46835010 (USE FORMAT 7 FOR FULLTEXT) 04645921

Simulation forecasts complex flow streams from Ekofisk

The Oil and Gas Journal, p69

Oct 28, 1996

Record Type: Fulltext Language: English

Document Type: Magazine/Journal; Trade

Word Count: 3716

parameters between the propane and the heavier components, which

were generated automatically by Hysim.

Calculator function limitations - Certain data such as the time and date and version number of Hysim are not directly available to the calculator. A dummy file needed to be...

7/3,K/56 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB

(c) 2004 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 20789306 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Act! Gets Upgrade -- PIM Is Useful, But Big Changes Are Few. (Symantec's Act! 4.0 personal information manager) (Software Review) (Evaluation)

Feibus, Andy

InformationWeek, n685, p118(1)

June 8, 1998

DOCUMENT TYPE: Evaluation ISSN: 8750-6874 LANGUAGE: English

RECORD TYPE: Fulltext

LINE COUNT: 00093 1189 WORD COUNT:

Act! to eliminate the need for a bolted-on product like SideAct! Although the added function in this product makes me think its version number should be 3.1 and not 4.0, Symantec's Act! is still an excellent...

7/3,K/57 (Item 2 from file: 148) DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2004 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 18822943 (USE FORMAT 7 OR 9 FOR FULL TEXT) 09137185 Simulation forecasts complex flow streams from Ekofisk. (Phillips Petroleum Co. Norway A/S production management software)

Arnes, Fatos Cecen; Lillejord, Henning; Vieler, Andrew

Cil and Gas Journal, v94, n44, p69(7)

Oct 28, 1996

ISSN: 0030-1388 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 4135 LINE COUNT: 00345

parameters between the propane and the heavier components, which were generated automatically by Hysim.

\* Calculator function limitations--Certain data such as the time and date and version number of Hysim are not directly available to the calculator. A dummy file needed to be...

7/3,K/58 (Item 3 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c)2004 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 03291111 (USE FORMAT 7 OR 9 FOR FULL TEXT) 02029046 Wide screen computing. (evaluation)

Blank, George

Creative Computing, v10, p26(7)

June, 1984

DOCUMENT TYPE: evaluation ISSN: 0097-8140 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 4383 LINE COUNT: 00324

the tab positions indicated for laying out your text. Also listed are the program name, version number, and the same of your file. The screen functions as a moving window, so the document can be wider and much longer than that...

(Item 1 from file: 15) 7/3,K/59

DIALOG(R)File 15:ABI/Inform(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

01649743 03-00733

Act! Gets upgrade

Feibus, Andy

Informationweek n685 PP: 118-120 Jun 8, 1998 ISSN: 8750-6874 JRNL CODE: IWK

WORD COUNT: 1139

...TEXT: Act! to eliminate the need for a bolted-on product like SideAct!

Although the added function in this product makes me think its version number should be 3.1 and not 4.0, Symantec's Act! is still an excellent

(Item 2 from file: 15) 7/3,K/60

DIALOG(R) File 15: ABI/Inform(R)

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00552674 91-27031

# DR DOS 5.0 Adds Value to Compete with the Leading Brand

Glass, Brett

InfoWorld v13n21 PP: 91-93 May 27, 1991

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 2754

...TEXT: you enter the VER command, the system displays "DR DOS 5.0." However, the internal function (30h) that tells applications the version number of DOS, reports Version 3.31.

This white lie actually has some advantages. If you...

(Item 1 from file: 647) 7/3, K/61DIALOG(R) File 647: CMP Computer Fulltext (c) 2004 CMP Media, LLC. All rts. reserv.

CMP ACCESSION NUMBER: IWK19980608S0054 Act! Gets Upgrade - PIM Is Useful, But Big Changes Are Few Andy Feibus INFORMATIONWEEK, 1998, n 685, PG118 IUBLICATION DATE: 980608

WURNAL CODE: IWK LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Software

WORD COUNT: 1118

Act! to eliminate the need for a bolted-on product like SideAct!

Although the added function in this product makes me think its version number should be 3.1 and not 4.0, Symantec's Act! is still an excellent...

(Item 2 from file: 647) 7/3.K/62 DIALOG(R)File 647:CMP Computer Fulltext (c) 2004 CMP Media, LLC. All rts. reserv.

CMP ACCESSION NUMBER: WIN19980101S0110

Windows DNA? Been There - WinTune 98 used the hottest development architecture-DNA-before it even had a name. (Web Dev)

Martin Heller

WINDOWS MAGAZINE, 1998, n 901, PG291

PUBLICATION DATE: 980101

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext SECTION HEADING: How To

WORD COUNT: 1468

precision, but I couldn't stand it. Eventually, I discovered that VBScript does report its version number , and that I could conditionally execute functions safely. That led me to write Function R2(a), which rounds smallish numbers to two...

8:Ei Compendex(R) 1970-2004/Apr W4 File (c) 2004 Elsevier Eng. Info. Inc. 35:Dissertation Abs Online 1861-2004/Apr File (c) 2004 ProQuest Info&Learning 65: Inside Conferences 1993-2004/Apr W4 File (c) 2004 BLDSC all rts. reserv. 2:INSPEC 1969-2004/Apr W4 File (c) 2004 Institution of Electrical Engineers File 94:JICST-EPlus 1985-2004/Apr W2 (c) 2004 Japan Science and Tech Corp(JST) File 483: Newspaper Abs Daily 1986-2004/May 01 (c) 2004 ProQuest Info&Learning 6:NTIS 1964-2004/May W1 File (c) 2004 NTIS, Intl Cpyrght All Rights Res File 144: Pascal 1973-2004/Apr W4 (c) 2004 INIST/CNRS File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec (c) 1998 Inst for Sci Info 34:SciSearch(R) Cited Ref Sci 1990-2004/Apr W4 File (c) 2004 Inst for Sci Info File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Mar (c) 2004 The HW Wilson Co. File 583: Gale Group Globalbase (TM) 1986-2002/Dec 13 (c) 2002 The Gale Group File 266: FEDRIP 2004/Mar Comp & dist by NTIS, Intl Copyright All Rights Res 95:TEME-Technology & Management 1989-2004/Apr W2 (c) 2004 FIZ TECHNIK File 438: Library Lit. & Info. Science 1984-2004/Mar (c) 2004 The HW Wilson Co Set Description Items \$1 180 VERSION() (NUMBER OR NO OR ID) S2 4 S1(10N) FUNCTION 3 🤄 ∵S3 RD (unique items)

```
(Item 1 from file: 8)
3/5/1
DIALOG(R) File 8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.
          E.I. Monthly No: EI7811084742 E.I. Yearly No: EI78069599
 Title: DIFFERENTIAL PULSE-CODE MODULATION OF THE WIENER PROCESS.
 Author: Hayashi, Akira
 Corporate Source: Kanazawa Inst of Technol, Ishikawa-ken, Jpn
 Source: IEEE Transactions on Communications v COM-26 n 6 Jun 1978 p
881-887
 Publication Year: 1978
                 ISSN: 0096-1965
 CODEN: IECMBT
 Language: ENGLISH
 Journal Announcement: 7811
 Abstract: The performance of DPCM with uniform quantization with the
Wiener process input is analyzed. The approach taken is to establish an
equation for the characteristic function of error distribution and then
to solve its steady-state version . No use is made in the derivation of
the approximating concepts of slope overload error and granular error. 9
refs.
 Descriptors: *PULSE CODE MODULATION; CODES, SYMBOLIC -- Error Statistics
 Identifiers: DIFFERENTIAL PULSE CODE MODULATION; WIENER PROCESS
 Classification Codes:
 716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software);
922 (Statistical Methods)
 71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 92
 (ENGINEERING MATHEMATICS)
           (Item 1 from file: 2)
DIALOG(R) File
               2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
5981369
Title: A marginally sharpened Act! [personal information manager]
 Author(s): Feibus, A.
                             no.32
 Journal: InformationWeek
                                      p.83
 Publisher: Emap Computing & CMP Media Inc,
 Publication Date: 24 June-7 July 1998 Country of Publication: UK
 CODEN: INFWF5
 Material Identity Number: G220-98013
 language: English Document Type: Journal Paper (JP)
 Treatment: Practical (P); Product Review (R)
 Abstract: Although the added function in this product suggests its
           number should be 3.1 and not 4.0, Symantec's Act! is still an
excellent PIM for those users who are looking for a tool that has more
power and better integration than more widely used tools such as Microsoft
Outlook or Lotus Organizer. When it comes to choosing a PIM to maintain
personal phone lists, calendar of appointments, and to-do lists, it is
worth considering Act! 4.0. (0 Refs)
 Subfile: D
 Descriptors: software reviews; time management
 Identifiers: Symantec Act! 4.0; personal information manager
 Class Codes: D2010 (Business and professional)
 Copyright 1998, IEE
           (Item 2 from file: 2)
3/5/3
DIALOG(R) File
              2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
          INSPEC Abstract Number: C86024940
02639509
Title: Calling MS-DOS from Turbo Pascal-it's a breeze
 Author(s): Swan, T.
 Journal: Programmer's Journal
                                  vol.3, no.4
                                                p.30-2
  Publication Date: July-Aug. 1985 Country of Publication: USA
 CODEN: PRGJE7 ISSN: 0747-5861
                      Document Type: Journal Paper (JP)
  Language: English
```

Treatment: Practical (P)

Abstract: The built-in MSDOS procedure in Turbo Pascal makes calling operating system routines a breeze. One can read the system date, check the DOS version number, change directory paths, list directories, or call any other DOS function -without once having to drop into assembly language. (O Refs)

4/5/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPIO

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\*\*\*Image available\*\*

FROGRAM DOWNLOAD SYSTEM, BROADCASTING COMMUNICATION FUSION TERMINAL AND FROGRAM DOWNLOAD METHOD

PUB. NO.: 2003-223387 [JP 2003223387 A]

PUBLISHED: August 08, 2003 (20030808)

INVENTOR(s): FUNAYA KOICHI CHISHIMA HIROSHI

> SATO NAOKI KATO AKIRA KANEDA SATORU SHIBATA SHUICHI

APPLICANT(s): NEC CORP

APPL. NO.: 2002-019929 [JP 200219929] FILED: January 29, 2002 (20020129)

INTL CLASS: G06F-013/00; G06F-009/445; H04N-005/44; H04N-007/173

### ABSTRACT

PROBLEM TO BE SOLVED: To simplify and quicken the download processing of the browser software of a broadcasting communication fusion terminal. SOLUTION: A module providing server 3 preliminarily stores a data function of a data processing module for realizing a part of the number . A broadcasting station processing program and its version device 1 broadcasts download announcement information including the address of the module providing server 3 in which the latest data processing module and the version number are stored, together with data broadcasting. A terminal 5 receives the download announcement information together with the data broadcasting, and separates them and analyzes the separation result. The terminal 5 requests the data processing module of the latest version number to a module providing server 3 when the latest version number is newer than the version number which is being used at present. The module providing server 3 downloads the requested data processing module to the terminal 5 in response to the request from the terminal 5.

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4/5/2 (Item 2 from file: 347)

DIALOG(R) File 347: JAPIO

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07435802 \*\*Image available\*\*

FILE MANAGEMENT METHOD AND PROGRAM THEREFOR, AND RECORDING MEDIUM

PUB. NO.: 2002-304312 [JP 2002304312 A] PUBLISHED: October 18, 2002 (20021018)

INVENTOR(s): INOUE TAKESHI

APPLICANT(s): MATSUSHITA ELECTRIC WORKS LTD APPL. NO.: 2001-107673 [JP 2001107673] FILED: April 05, 2001 (20010405) INTL CLASS: G06F-012/00; G06F-009/44

# ABSTRACT

FROBLEM TO BE SOLVED: To improve efficiency of file management by grouping and managing a plurality of files together with **version number** information with a conventional file **version number** management function as a base.

SOLUTION: When updating an individual file of the plurality of files constituting a **software** or the like in a process for creating, developing or modifying the **software** or the like, the version number information is added to the file, and the plurality of files are grouped and managed together with the version number information. By storing the plurality of files added with the version number information into different folders by

kinds, and specifying and extracting arbitrary version number information of an arbitrary file from the plurality of folders, a combination of the plurality of files is managed as one group. Information wherein group information for managing the plurality of files added with the version number information as the one group is plurally combined is managed as high-order hierarchical group information.

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4/5/3 (Item 3 from file: 347)

DIALOG(R) File 347: JAPIO

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07390417 \*\*Image available\*\*
SUPPORT TOOL FOR CONTROLLER

PUB. NO.: 2002-258918 [JP 2002258918 A] PUBLISHED: September 13, 2002 (20020913)

INVENTOR(s): WADA HIROYUKI

APPLICANT(s): FUJI ELECTRIC CO LTD

APPL. NO.: 2001-052684 [JP 200152684] FILED: February 27, 2001 (20010227) INTL CLASS: G05B-019/05; G06F-009/45

# ABSTRACT

FROBLEM TO BE SOLVED: To improve reliability by increasing the function of supporting a controller.

SOLUTION: A support tool 2 for supporting a controller 1 is provided with a function for managing assemblers in all generations for every version and calling and executing the designated version of assembler, and a **function** for storing the **version number** (version **code**) of the assembler assembled for the source program of the controller in a memory 3. Thus, it is possible to simplify maintenance and to improve reliability by reducing a state that machine word objects are different from each other in the controller 1 and the support tool 2 as much as possible.

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4/5/4 (Item 4 from file: 347)

DIALOG(R) File 347: JAPIO

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06527046 \*\*Image available\*\*
SOFTWARE DISTRIBUTION SYSTEM

PUB. NO.: 2000-112766 [JP 2000112766 A]

PUBLISHED: April 21, 2000 (20000421)

INVENTOR(s): IKEDA SUSUMU APPLICANT(s): NEC CORP

AFFL. NO.: 10-283702 [JP 98283702] FILED: October 06, 1998 (19981006)

INTL CLASS: G06F-009/445; G06F-009/06; G06F-013/00

### ABSTRACT

PROBLEM TO BE SOLVED: To provide a  ${\tt software}$  distribution system integrally managing the file distribution of a client/server  ${\tt application}$ .

SOLUTION: In distributing a file to a personal computer (PC) client machine 104 from the manager function 105 of a **software** distribution server machine 101, the **function** 105 registers distribution file information and the **version number** of another **application** number necessary for the operation of the distribution file and transmits the distribution file to the agent function 106 of a PC client machine 104. The function 106 receives a file and a command and returns an executed result to the function 105. When the executed result is normal, the function 105 updates

information of a present version.

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4/5/5 (Item 5 from file: 347)

DIALOG(R) File 347: JAPIO

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\*\*Image available\*\* INFORMATION PROVIDING SYSTEM

10-143407 [JP 10143407 A] PUB. NO.: May 29, 1998 (19980529)

PUBLISHED: INVENTOR(s): MATSUMURA TAKAHIRO

TAKANO MASAJI SUGIMURA TOSHIAKI KATAGIRI MASAJI

APPLICANT(s): NIPPON TELEGR & TELEPH CORP < NTT> [000422] (A Japanese

Company or Corporation), JP (Japan)

APPL. NO.: 08-313060 [JP 96313060] November 08, 1996 (19961108) FILED:

[6] G06F-012/00; G06F-012/00; G06F-013/00; G06F-013/00; INTL CLASS:

G06F-015/00

JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.4

(INFORMATION PROCESSING -- Computer Applications )

## ABSTRACT

PROBLEM TO BE SOLVED: To provide an information providing system with which it is not necessary to pay a communication tariff more than required when the information file to be downloaded does not exist and further, average time from the update of information held in server equipment to the lownload is shortened. .

COLUTION: Server equipment SB has a data base DB recording call originating supeddress information or the like corresponding to communication lines 11 and 12 to which respective pieces of terminal equipment T1-T3 are connected, information held at the respective pieces of terminal equipment T1-T3 and the version numbers of that information. In this case, when an incoming call from any one of terminal equipment T1-T3 is detected, based on the call originating subaddress information or the like reported from a communication network NW having a call originating subaddress information function , etc., the version number of information held at that terminal equipment is retrieved from the data base DB and only when it is confirmed that this retrieved version is not the latest one, a response is applied. Then, the file of difference between the information of the latest version and the information of the terminal equipment is downloaded.

(Item 6 from file: 347) 4/5/6

DIALOG(R) File 347: JAPIO

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05608370 \*\*Image available\*\*

PROCESS OPERATION FLOW MANAGING SYSTEM

09-223170 [JP 9223170 A] August 26, 1997 (19970826) PUB. NO.: PUBLISHED:

INVENTOR(s): HIROYA MITSURU

EGAWA YASUHIRO

APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 08-053928 [JF 303322], FILED: February 16, 1996 (19960216)

INTL CLASS:

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications )

FEORLEM TO BE SOLVED: To prepare a process operation flow derived from a partial change by changing only a corresponding part in a basic process operation flow.

SOLUTION: A version number issue managing function part 20 issues version numbers to process operation flows to be prepared in accordance with preparation order to constitute respective prepared process operation flows hierarchically. A process flow managing function part 30 newly prepares only an independent part in a process operation flow to be prepared so that a common part in an upper process operation flow can be used for the corresponding part of the prepared process operation flow and stores the prepared process operation flow in a data base in relation with a received version number. In the case of retrieving a prescribed process operation flow, version numbers are hierarchically traced to the upper side to collect the corresponding process operation flow.

4/5/7 (Item 7 from file: 347)

DIALOG(R) File 347: JAPIO

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04352416 \*\*Image available\*\*
SATELLITE DATA BROADCASTING SYSTEM

PUB. NO.: 05-344116 [JP 5344116 A] PUBLISHED: December 24, 1993 (19931224)

INVENTOR(s): UENO NOBUO

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 04-151032 [JP 92151032] FILED: June 11, 1992 (19920611)

INTL CLASS: [5] H04L-009/06; H04L-009/14; H04B-007/212; H04L-012/18
JAPIO CLASS: 44.3 (COMMUNICATION -- Telegraphy); 34.4 (SPACE DEVELOPMENT

-- Communication); 44.2 (COMMUNICATION -- Transmission

Systems)

JOURNAL: Section: E, Section No. 1530, Vol. 18, No. 174, Pg. 145,

March 24, 1994 (19940324)

# ABSTRACT

PURPOSE: To detect the noncoincidence of keys at a receiving station without decreasing the packet transmission capacity of transmitting information concerning the satellite data broadcasting system for ciphering and transmitting the transmitting information.

CONSTITUTION: In the satellite data broadcasting system provided with a center station A and a receiving station B, the center station is provided with a key version number generating means 4 to generate and transmit the number of versions for network keys, key information generating means 2 to generate key information by ciphering the network keys and adding the version number of key, and key edition number fetching function 31 added to a frame control code generating section 3. The receiving station is provided with a key information receiving means 6 to separate the key version number from the inputted key information and to store it, and key version number collating means 7 to collate the key information receiving means with the respective key version number extracted at a frame control code extracting section 5 and to output the collated result.

4/5/8 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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03411824 \*\*Image available\*\*
INSTALLATION INSPECTING DEVICE

PUB. NO.: 03-074724 [JP 3074724 A] PUBLISHED: March 29, 1991 (19910329)

INVENTOR(s): TAKECHI YASUHIDE

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 01-210690 [JP 89210690] FILED: August 17, 1989 (19890817)

INTL CLASS: [5] G06F-009/06

JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

JOURNAL: Section: P, Section No. 1217, Vol. 15, No. 242, Pg. 9, June

21, 1991 (19910621)

### ABSTRACT

PURPOSE: To reduce the load of a user required for an inspecting job and at the same time to prevent the misinspection by checking whether a program or a file is completely registered or not based on the information set previously.

CONSTITUTION: A program file 2 is provided to store the information set previously on a program together with a data file 3 which stores the information set previously and necessary for actuation of the program. An installation inspecting means 1 inspects whether the program is completely registered or not into a program library 6 and a file name information file 7 based on the contents of both files 2 and 3 which are loaded to an electronic computer 5 with an installation inspecting instruction of a user. At the same time, the means 1 inspects whether a system program has a function necessary for the program action or not based on the version number (updating recording frequency). Thus it is possible to reduce load of the user required for an inspecting job and also to avoid the inconvenience of the program action caused by the misinspection.

# 4/5/9 (Item 9 from file: 347)

DIALOG(R) File 347: JAPIO

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02819962 \*\*Image available\*\*

SOFTWARE REVISION SYSTEM FOR FACSIMILE EQUIPMENT

PUB. NO.: 01-117562 [JP 1117562 A] PUBLISHED: May 10, 1989 (19890510)

INVENTOR(s): KUMAGAI YASUHIRO

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 62-275171 [JP 87275171] FILED: October 30, 1987 (19871030)

INTL CLASS: [4] H04N-001/00; G06F-009/06; H04N-001/32

JAPIO CLASS: 44.7 (COMMUNICATION -- Facsimile); 45.1 (INFORMATION

PROCESSING -- Arithmetic Sequence Units)

JOURNAL: Section: E, Section No. 804, Vol. 13, No. 359, Pg. 39, August

10, 1989 (19890810)

# ABSTRACT

PURPOSE: To always up-to-date the **version number** of the **software** of a facsimile equipment by providing a **function** polling a center equipment so as to check the **version number** of the **software** from a facsimile equipment at the terminal equipment side.

CONSTITUTION: A control circuit 6 applies polling to a center equipment 10 via a communication control circuit 5 and a communication line 11 at each prescribed period set in advance or at application of daily power supply or according to the command of the operator. The center equipment 10 sends the latest version number information of the software in use for the facsimile equipment to be managed. A comparator 4 compares the version number information of the software of its own equipment stored in a memory 2 with the version number information sent from the center equipment 10 of the memory 3 and when they are dissident, the comparator 4 requests nown-loading of the newest software to its own equipment to the center equipment 10 via the communication control circuit 5.

```
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015632030
             **Image available**
WPI Acc No: 2003-694212/200366
XRPX Acc No: N03-554903
  User terminal has control function unit which functions to setup,
  register and change internet protocol version ID corresponding to
 user terminal, in response to receiving services from various service
 provision firms
Patent Assignee: NIPPON DENSHI SERVICE KK (NIDE-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                            Kind
                   20030919 JP 200264686
                                            Α
                                                  20020311
                                                            200366 B
JP 2003264578 A
Priority Applications (No Type Date): JP 200264686 A 20020311
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
IP 2003264578 A
                    6 H04L-012/56
Abstract (Basic): JP 2003264578 A
        NOVELTY - A control function unit (12) functions to setup, register
    and change internet protocol version 6 (IPv6) identifier (ID)
    corresponding to the user terminal (1), in response to receiving
    services from various service provision firms.
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
    computer software for operating user terminal.
        USE - User terminal used for receiving various services provided by
    service provision firms such as banks, credit firms, travel agencies,
    ticket agent firms and hotels.
        ADVANTAGE - Enables rapidly switching between different provision
    services by appropriately changing the IPv6 ID.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
    the user terminal. (Drawing includes non-English language text).
        user terminal (1)
        terminal function unit (11)
        internet protocol version (IPV6) control function unit (12)
        service controller (14)
        input output controller (15)
        pp; 6 DwgNo 2/4
Title Terms: USER; TERMINAL; CONTROL; FUNCTION; UNIT; FUNCTION; REGISTER;
  CHANGE; PROTOCOL; VERSION; ID; CORRESPOND; USER; TERMINAL; RESPOND;
  RECEIVE; SERVICE; VARIOUS; SERVICE; PROVISION
Derwent Class: T01; W01
International Patent Class (Main): H04L-012/56
Enternational Patent Class (Additional): G06F-015/00; H04L-029/06
-i.e Segment: EPI
            (Item 2 from file: 350)
 4/5/11
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014527792
             **Image available**
WPI Acc No: 2002-348495/200238
 Method for developing and managing project through project schedule board
  interlocked with source code version management
Patent Assignee: KOREA TELECOM (KOTE-N) Inventor: BYUN G S; KIM J Y; LEE J H
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                            Kind
                                                    Date
                                                             Week
KR 2001064882 A 20010711 KR 9959261
                                                  19991220 200238 B
                                            Α
Priority Applications (No Type Date): KR 9959261 A 19991220
Patent Details:
```

Filing Notes

Patent No Kind Lan Pg Main IPC

Abstract (Basic): KR 2001064882 A

NOVELTY - A method for developing and managing a project through a project schedule board interlocked with a management of a source code version is provided to unitedly manage a management of a source code version and a project development by interlocking a result of the management of the source code version with a web site of the management of the project development in a source code and project integrated development management system.

DETAILED DESCRIPTION - A promoting schedule of a project is prepared (201). A plan for embodying a detail function is prepared (202). A completion request function item list is prepared by development stages. In addition, A charged developer list is prepared by function items(203). A completion list is prepared by development stages(204). A version number is given by source code files. In addition, a related function item list is prepared(205). It is judged whether a point of present time is a closing time of a project stage proceeded(206). It is judged whether there's a new change request in a specific source code file (207). It is judged whether a change of the specific source file is needed (208). It is judged whether a specific function item is completed (209). A project server accumulates and calculates an accomplishment rate of personal aim by stages and so on(210). Information of a project schedule board is corrected and displayed (211).

pp; 1 DwgNo 1/10

Title Terms: METHOD; DEVELOP; MANAGE; PROJECT; THROUGH; PROJECT; SCHEDULE;

BOARD; INTERLOCKING; SOURCE; CODE ; VERSION; MANAGEMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

#### 4/5/12 (Item 3 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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\*\*Image available\*\* 012707756 WPI Acc No: 1999-513865/199943

XRPX Acc No: N99-383504

Mask pattern check procedure for LSI - involves comparing version number of mask pattern, with newest version number of corresponding function cell

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Kind Applicat No Kind Date Date Week Patent No 19990817 JP 9827060 Α 19980209 199943 B JP 11224278 A

Priority Applications (No Type Date): JP 9827060 A 19980209

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

A 5 G06F-017/50 JP 11224278

Abstract (Basic): JP 11224278 A

 ${\tt NOVELTY}$  - The version number of the mask pattern of the semiconductor circuit, is compared with the newest version of the corresponding function cell.

USE - For LSI.

ADVANTAGE - The check is made at high speed. The trouble and the reason for the alteration in the old version is displayed. So the problem and the replacement is found and performed. The mask pattern data which does not exist in the library is found, since the check is made for each function cell. The check is performed reliably and processing time is also less. DESCRIPTION OF DRAWING(S) - The figure represents mask pattern check apparatus.

File 348:EUROPEAN PATENTS 1978-2004/Apr W04
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040415,UT=20040408

(c) 2004 WIPO/Univentio

Set	Items	Description						
S1	3056	VERSION()(NUMBER O	OR NO OR ID)					
S2	115	S1(10N)FUNCTION						
s3	39	S2(100N)(CODE OR P	ROGRAMMING()LANGUAGE?	?	OR	OOPL	OR	SOFTW-
	AR	RE OR APPLICATION? ?	OR LIBRAR???)					
S4	23}	S3 AND IC=G06F						

4/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00677970

SYSTEM FOR OBJECT ORIENTED DYNAMIC LINKING BASED UPON A CATALOG OF REGISTERED FUNCTION SET OR CLASS IDENTIFIERS

OBJEKTORIENTIERTES DYNAMISCHES "LINK"-SYSTEM, WELCHES AUF KATALOGISIERTE FUNKTIONEN UND KLASSEN ZUGREIFT

SYSTEME DE LIAISON DYNAMIQUE ORIENTEE OBJETS SUR LA BASE D'UN CATALOGUE D'IDENTIFICATEURS ENREGISTRES DE JEUX OU DE CLASSES DE FONCTIONS PATENT ASSIGNEE:

APPLE COMPUTER, INC., (1211950), 20525 Mariani Avenue, Cupertino, California 95014, (US), (applicant designated states: DE;FR;GB;IT) INVENTOR:

COWSAR, George, Curtis, 4598 Winding Way, San Jose, CA 95129, (US) PLUMMER, Christopher, Jordan, 903 Erie Circle, Milpitas, CA 95035, (US) QUINN, Michael, John, 919 Hedegard Avenue, Campbell, CA 95008-1810, (US) LEGAL REPRESENTATIVE:

Tomlinson, Kerry John (36771), Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 706684 Al 960417 (Basic)

EP 706684 B1 981104 WO 9501598 950112

APPLICATION (CC, No, Date): EP 94922068 940630; WO 94US7424 940630

PRIORITY (CC, No, Date): US 85187 930630

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-009/44; G06F-009/445 NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count 1677 CLAIMS B (English) 9845 CLAIMS B (German) 9845 1505 CLAIMS B (French) 9845 1904 SPEC B (English) 9845 18404 Total word count - document A 0 Total word count - document B 23490 Total word count - documents A + B 23490

INTERNATIONAL PATENT CLASS: G06F-009/44 ...

# ... G06F-009/445

...SPECIFICATION number fields are used to insure that the cached information is still valid (if the library unloaded and a new version of a class or function set in the library was dragged into a registered folder, any cached information is invalid). The version number fields contain information about the version number of the class or function set that your application (code resource, extension, etc.) linked with, and the fClassIDStr field contains the actual ClassID of the ...of object-oriented ability for ordinary functions.

version =

This declaration defines the version of the **function** set. The **version number** is in the standard Apple **version number** form: #.#(.#). The version number may not have the extra release information (like b2) on it...

- ...numbers separated either by 3 dots (...) or an ellipsis character (option-;). This indicates the minimum version number of the function set that this function set is backwards-compatible with, and the current version number of the function set. Nothing is done with this information in version 1.0 of SLM, but future...
- ...information. If you do not specify a version number, the version number specified in the "Library " declaration will be assumed. This may be a

```
exports =
    This declares a comma...
...CLAIMS set of the particular member function.
  9. The apparatus of claim 8, further comprising
   a library (203-223) of function sets in the memory, function sets in
     the library having function set identifiers, and including member
      functions; and
   wherein the function sets are assigned...
...a standard protocol, and the dispatch record further includes version
      information linked with the client application indicating a minimum
      version number (221) supported by the client application for the
      function set of the particular member function;
   the library includes a version number (214) for the corresponding function sets, and
   the link engine includes code responsive to the version information in
      the dispatch record and the version number in the library to insure
      that the client application supports a version of the function set
      of the particular member function.
  10. The apparatus of claim 1, further comprising:
   a library (203-223) of function sets stored in the memory, function
      sets in the library having function set identifiers, and including
      member functions; and wherein the link engine includes:
   a...
             (Item 8 from file: 348)
 4/3,K/8
DIALOG(R)File 348:EUROPEAN PATENTS
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00652104
DISTRIBUTED WORK FLOW MANAGEMENT
VERTEILTES ARBEITSFLUSS-MANAGEMENT
GESTION REPARTIE DU DEROULEMENT DES OPERATIONS
PATENT ASSIGNEE:
  Van-Ka BV, (3059760), Parnassustoren, Locatellikade 1, 1076 AZ AMSTERDAM,
    (NL), (Proprietor designated states: all)
INVENTOR:
  Nauckhoff, Sven, Sibyllegatan 43-45, 144 42 Stockholm, (SE)
LEGAL REPRESENTATIVE:
  Akerman, Marten Lennart et al (69671), Albihns Malmo AB Box 4289, 203 14
    Malmo, (SE)
PATENT (CC, No, Kind, Date): EP 788631 Al 970813 (Basic)
                              EP 788631 B1 020130
                              WO 9420910 940915
                              EP 94909385 940301; WO 94SE173 940301
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): SE 93671 930301
DESIGNATED STATES: DE; FR; GB; SE
INTERNATIONAL PATENT CLASS: G06F-017/60
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS B (English) 200205
                                      4107
                                      3720
      CLAIMS B
               (German) 200205
                                      5081
      CLAIMS B (French) 200205
               (English) 200205
                                     23619
      SPEC B
Total word count - document A
                                         0
                                     36527
Total word count - document B
                                     36527
Total word count - documents A + B
INTERNATIONAL PATENT CLASS: G06F-017/60
```

...SPECIFICATION Some implementation notes:

#defined symbol.

1. The DEACTIVATE (underscore) CASE is performed by the ATX when the Application Task has terminated.

If the case has been created or changed, then the **function** stores the new case **version number** in the case working control and data pools and closes them. It "commits" the new...

# 4/3,K/9 (Item 9 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS

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### 00324410

Dynamically adaptive environment for computer programs.

Dynamische Umgebungsanpassung von Rechnerprogrammen.

Adaptation dynamique de l'environnement de programmes de calculateurs. PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)

### INVENTOR:

Evans, Wayne O'Neil, 3104 14th Avenue Northwest, Rochester Minnesota 55901, (US)

LEGAL REPRESENTATIVE:

Lattard, Nicole et al (16571), Compagnie IBM France Departement de Propriete Intellectuelle, F-06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 317478 A2 890524 (Basic)

EP 317478 A3 910911 EP 317478 B1 950517

APPLICATION (CC, No, Date): EP 88480058 881011;

PRIORITY (CC, No, Date): US 121965 871117

DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G06F-009/44

ABSTRACT WORD COUNT: 207

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

```
Available Text Language
                          Update ·
                                    Word Count
     CLAIMS A (English) EPABF1
                                     414
     CLAIMS B (English) EPAB95
                                      448
     CLAIMS B
               (German) EPAB95
                                      407
     CLAIMS B
                (French) EPAB95
                                      485
      SPEC A
               (English) EPABF1
                                     6586
     SPEC B
               (English) EPAB95
                                     6747
Total word count - document A
                                     7000
Total word count - document B
                                     8087
Total word count - documents A + B
                                    15087
```

### INTERNATIONAL PATENT CLASS: G06F-009/44

...SPECIFICATION one list or a plurality of lists with each list having a different sequence of **libraries**. The list could be selected based on the version ID.

For example, a command indicated...

...step 132 could use search routine 144 to search libraries according the version priority -- V1 library, V"N" library, User library 1, User library 2, etc. This priority or sequence of listed libraries could be different for each version and could be selected as a function of version ID in the same way that decision 122 selected the first library to be searched.

Logical search order for version libraries is shown in Fig. 6. When a program has a program attribute indicating that version 1 programs are to be run, the search order of the libraries is as indicated at 60. The version 1 library is first searched. If the command that is searched for is not found in the version 1 library 12, the version 2 library 14 is searched. Then, if still not found, a first user library is searched, then a second. A user library is a library which is specified by the user, and usually contains user application programs...

...SPECIFICATION one list or a plurality of lists with each list having a different sequence of libraries . The list could be selected based on the version ID.

For example, a command indicated...

...step 132 could use search routine 144 to search libraries according the version priority -- V1 library, V"N" library, User library 1, User library 2, etc. This priority or sequence of listed libraries could be different for each version and could be selected as a function of version ID in the same way that decision 122 selected the first library to be searched.

Logical search order for version libraries is shown in Fig. 6. When a program has a program attribute indicating that version 1 programs are to be run, the search order of the libraries is as indicated at 60. The version 1 library is first searched. If the command that is searched for is not found in the version 1 library 12, the version 2 library 14 is searched. Then, if still not found, a first user library is searched, then a second. A user library is a library which is specified by the user, and usually contains user application programs...

4/3,K/10 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01060367 \*\*Image available\*\*

INITIALIZING, MAINTAINING, UPDATING AND RECOVERING SECURE OPERATION WITHIN AN INTEGRATED SYSTEM EMPLOYING A DATA ACCESS CONTROL FUNCTION

OPERATION SECURISEE D'INITIALISATION, DE MAINTIEN, DE MISE A JOUR ET DE RECUPERATION DANS UN SYSTEME INTEGRE UTILISANT UNE FONCTION DE CONTROLE D'ACCES AUX DONNEES

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armonk, NJ 10504, US, US (Residence), US (Nationality)

Inventor(s):

FOSTER Eric M, 41 Front Street, Owego, NY 13827, US,

HALL William E, 8 White Oak Drive, Clinton, CT 06413, US,

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Legal Representative:

SCHNURMANN Daniel H (agent), International Business Machines Corporation, Dept. 18G/Bldg. 300-482, 2070 Route 52, Hopewell Junction, NY 12533, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200390402 A1 20031030 (WO 0390402)

Application: WO 2003US11907 20030416 (PCT/WO US0311907)

Priority Application: US 2002125803 20020418

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 9538

International Patent Class: G06F-012/14

Fulltext Availability:

Claims

Claim

... The method of claim 1, in combination with a method for updating a level of

software , said method for updating the level of software comprising:

determining a software level update is...

...determining the current level of software is authorized to authenticate the updated 25

level of software, and if so, proceeding to accept the software level update into the integrated system employing the data access control function.

6 The method of claim 5, wherein the updated level of software comprises an

initialization code update, and wherein the method further includes: authenticating and decrypting the initialization code update; encrypting the decrypted initialization code update with a master key set maintained by the data access control function and a new version number; and updating an initialization re-direction address maintained by the data access control function to...

...initialization location address.

7 The method of claim 5, wherein if the current level of software is unable to authenticate the software level update, then the software level update is held at the integrated system until an appropriate level of software is running and able to authenticate the software level update.

8 The method of claim 5, wherein the proceeding to accept the software level update into the integrated system comprises encrypting for storage the software level update, the encrypting comprising employing a new version number when encrypting the software level...

4/3,K/11 (Item 2 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2004 WIPO/Univentio. All rts. reserv.

\*\*Image available\*\*

METHOD AND SYSTEM FOR FACILITATING CREATION, PRESENTATION, EXCHANGE, AND MANAGEMENT OF DOCUMENTS TO FACILITATE BUSINESS TRANSACTIONS

PROCEDE ET SYSTEME FACILITANT LA CREATION, LA PRESENTATION, LES ECHANGES, ET LA GESTION DE DOCUMENTS, ET PAR LA LES TRANSACTIONS D'AFFAIRES

Patent Applicant/Assignee:

CORE IPR LIMITED, 2606-2601 26/F, China Ressources Bldg., 26 Harbour Road, Wanchai, Hong Kong, HK, CN (Residence), -- (Nationality)

HUNG Michael, 2606-2601, 26F, China Ressources Bldg., 26 Harbour Road, Wanchai, Hong Kong, CN,

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TAI Patrick, 2606-2601, 26/F, China Resources Bldg., 26 Harbour Road, Wanchai, Hong Kong, CN,

Legal Representative:

DINH Truong T (agent), Dinh & Associates, 2506 Ash Street, Palo Alto, CA

Patent and Priority Information (Country, Number, Date):

WO 200319326 A2-A3 20030306 (WO 0319326) Patent: WO 2002US14916 20020509 (PCT/WO US0214916) Application: Priority Application: US 2001290079 20010509

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12806

Main International Patent Class: G06F-017/60

International Patent Class: G06F-007/00

Fulltext Availability: Detailed Description

# Detailed Description

... system and the organizations registered with the ASP, and farther leverages on the existing facilities. **Application** programming interface (API) processes may be used for this purpose, which enable the exchange of to the document by the sender using an amendment **function** ..

When a document is amended, its **version number** is automatically incremented, indicating the latest version of the document. By default, when an amendment...

# 4/3,K/12 (Item 3 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00963611 \*\*Image available\*\*

EXTENDED WEB ENABLED MULTI-FEATURED BUSINESS TO BUSINESS COMPUTER SYSTEM FOR RENTAL VEHICLE SERVICES

SYSTEME INFORMATIQUE INTERENTREPRISES A ELEMENTS MULTIPLES A ACCES INTERNET POUR SERVICES DE LOCATION DE VEHICULES

Patent Applicant/Assignee:

THE CRAWFORD GROUP INC, 600 Corporate Park Drive, St. Louis, MO 63105, US , US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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US (Residence), US (Nationality), (Designated only for: US)
KENNEDY Craig Stephen, 9129 Meadowglen Lane, St. Louis, MO 63126, US, US

KENNEDY Craig Stephen, 9129 Meadowglen Lane, St. Louis, MO 63126, US, US (Residence), US (Nationality), (Designated only for: US)

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TINGLE William T, 17368 Hilltop Ridge Drive, Eureka, MO 63025, US, US (Residence), US (Nationality), (Designated only for: US)

KLOPFENSTEIN Anita K, 433 Schwarz Road, O'Fallon, IL 62269, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

HAFERKAMP Richard E (et al) (agent), Howell & Haferkamp, L.C., Suite 1400, 7733 Forsyth Blvd., St. Louis, MO 63105-1817, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200297700 A2 20021205 (WO 0297700)

Application: WO 2001US51431 20011019 (PCT/WO US0151431)

Priority Application: US 2000694050 20001020

Parent Application/Grant:

Related by Continuation to: US 2000694050 20001020 (CIP)

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU

SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English Fulltext Word Count: 237932

Main International Patent Class: G06F-017/60

```
Detailed Description
Detailed Description
... Age, Driver's License 9, State, and Expiration Date.
  3. Key Y=Yes, or N= No , if the rental will be ... Key "Bill To"
  Information: Company Name, Contact Person, Address, Ph6ne Number, City,
  State, and Zip Code will be pre4oaded, if valid Customer # is keyed on
  the first Reservation Screen.
  S. Pickup...
 4/3,K/13
              (Item 4 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
            **Image available**
SYSTEM FOR INTELLECTUAL PROPERTY REUSE IN INTEGRATED CIRCUIT DESIGN
        DE
              REUTILISATION D'ELEMENTS DE PROPRIETE INTELLECTUELLE EN
    CONCEPTION DE CIRCUIT INTEGRE
Patent Applicant/Assignee:
  MENTOR GRAPHICS CORP, 8005 SW Boeckman Drive, Wilsonville, OR 97070-7777,
    US, US (Residence), US (Nationality), (For all designated states
    except: US)
Patent Applicant/Inventor:
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    (Residence), US (Nationality), (Designated only for: US)
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  ELMAN Anna, 10703 Cassia Drive, Austin, TX 78759, US, US (Residence), US
    (Nationality), (Designated only for: US)
  LING David, 12714 Red Deer Pass, Austin, TX 78729-6436, US, US
    (Residence), US (Nationality), (Designated only for: US)
  BENAVIDES Alvaro Eduardo, 1306 Creekview Drive, Round Rock, TX 78681, US,
    US (Residence), US (Nationality), (Designated only for: US)
  MCADAMS Mark A, 5508 Lomita Circle, Plano, TX 75023, US, US (Residence),
    US (Nationality), (Designated only for: US)
Legal Representative:
  SCHEINBERG Michael O (agent), P.O. Box 164140, Austin, TX 78716-4140, US,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 200198921 A1 20011227 (WO 0198921)
                        WO 2001US20131 20010621 (PCT/WO US0120131)
  Application:
  Priority Application: US 2000213207 20000621
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 9510
Main International Patent Class: G06F-015/18
Fulltext Availability:
  Claims
```

# Claim

... the component; and

Fulltext Availability:

- a deliverable version including one or more design files performing
- a common function and having described by deliverable version number

2 The system of claim I further comprising inetadata associating the deliverable version number with...

...which the deliverable files are stored.

4 The system of claim 3 further comprising an **application** server through which the user accesses the database to create and modify the metadata database...

4/3,K/14 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00859411 \*\*Image available\*\*

A SOFTWARE DEVELOPMENT SYSTEM THAT PRESENTS A LOGICAL VIEW OF PROJECT COMPONENTS, FACILITATES THEIR SELECTION, AND SIGNALS MISSING LINKS PRIOR TO COMPILATION

SYSTEME LOGICIEL DE MISE AU POINT PRESENTANT UNE VUE LOGIQUE DE COMPOSANTS PROJET, FACILITANT LEUR SELECTION, ET LIAISONS MANQUANTES DE SIGNAUX AVANT LA COMPILATION

Patent Applicant/Assignee:

PHOENIX TECHNOLOGIES LTD, 411 E. Plumeria Drive, San Jose, CA 95134, US, US (Residence), US (Nationality)

Inventor(s):

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NOBLES Kimberley G (agent), Irell & Manella, LLP, Suite 400, 840 Newport Center Drive, Newport Beach, CA 92660, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200193031 A1 20011206 (WO 0193031)

Application: WO 2001US9094 20010320 (PCT/WO US0109094)

Priority Application: US 2000531678 20000320

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English Filing Language: English Fulltext Word Count: 60485

Main International Patent Class: G06F-009/45

Fulltext Availability: Detailed Description

Detailed Description

... the version number of the fimction could be encoded as a

-style keyword in the function prototype.

In addition, the exact manner by which the **version number** is attached to the caller and callee could vary from programining language to **programming language**. For example, in C, it can be attached to the flinction prototypes if MASM macros...

...can also apply to static variables or data structures.

This use of versioning allows large **software** projects to be built more independently by tracking semantic changes in input paraineters (bug

fixesmodified parameter definitions). It also gives improved feedback as to whether the **software** project is likely to work before compilation and. run-time. The versioning may also reduce...

# 4/3,K/15 (Item 6 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2004 WIPO/Univentio. All rts. reserv. \*\*Image available\*\* A METHOD FOR TRACING ERRORS IN A SOFTWARE PROCEDE DE DEPISTAGE DES ERREURS DANS UN LOGICIEL Patent Applicant/Assignee: TELEFONAKTIEBOLAGET LM ERICSSON (publ), S-126 25 Stockholm, SE, SE (Residence), SE (Nationality) Inventor(s): BODO Bela, Kanelgrand 44, S-135 36 Tyreso, SE, Legal Representative: NORIN Klas (agent), Ericsson Radio Systems AB, Common Patent Department, S-164 80 Stockholm, SE, Patent and Priority Information (Country, Number, Date): WO 200144931 A1 20010621 (WO 0144931) WO 2000SE2558 20001215 (PCT/WO SE0002558) Application: Priority Application: SE 994646 19991217 Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR ((OAPI utility model)) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 3002 Main International Patent Class: G06F-009/44 Fulltext Availability: Claims

Claim

00790513

... method of facilitating the tracing of errors in function library software, wherein said function library software is achieved in a building process, i.e. the compiling and linking of a number of source- code files which are stored in a version controlling system, and wherein at least a part...

...said building process
furthermore results in a record which specifies names and
versions of source- code files included in said building
process c h a r a c t e r...and version number of the record
thus stored, and
-bundling (206, 207) said path and version number with
said function library software in such a manner that said
path and version number is retrievable when the function
library software is to be used.

6 A computer readable medium comprising, in compiled format, the following...

4/3,K/16 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

\*\*Image available\*\*

SOFTWARE DEVELOPMENT SYSTEM FOR FACILITATING SELECTION OF COMPONENTS SYSTEME LOGICIEL DE MISE AU POINT POUR FACILITER LA SELECTION DE COMPOSANTS Patent Applicant/Assignee:

PHOENIX TECHNOLOGIES LTD, 411 East Plumeria Drive, San Jose, CA 95134, US , US (Residence), US (Nationality)

Inventor(s):

COHEN Frances, 65 Carson, Irvine, CA 92620, US,

BOMBET Marc Abraham, 22501 Chase #8103, Aliso Viejo, CA 92656, US, LUSINSKY Robert Dennis, 1449 E. Holcomb Place, Placentia, CA 92870, US, LEWIS Timothy Andrew, 33775 Shallow Ct., Freemont, CA 94555, US, SANDUSKY Marc Shane, 7 Greenborrow Court, Aliso Viejo, CA 92656, US,

Legal Representative:

RITTMASTER Ted R (agent), Foley & Lardner, Suite 3500, 2029 Century Park East, Los Angeles, CA 90067-3021, US,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 200123998 A1 20010405 (WO 0123998)

Application: WO 2000US25928 20000922 (PCT/WO US0025928) Priority Application: US 99404298 19990924; US 2000531678 20000320

Designated States: CN DE GB JP Publication Language: English Filing Language: English

Filing Language: English Fulltext Word Count: 49598

Main International Patent Class: G06F-009/44

Fulltext Availability: Detailed Description

Detailed Description

... version.

The PUBEXT macro is used to declare a reference to a public interface, either **function** or array. One of the parameters includes the **version number** expected by the caller. The version number has a similar format to that of the...

- ...database update) utility, which, when invoked, scans for the previously described macros in all source **code** files in each object and places the name of the interface and its version in...
- ...handled by a preprocessor or special version of a compiler. For example, in
  - C, the version number of the function could be encoded as a
    -style keyword in the
    function prototype.

In addition, the exact manner by which the **version number** is attached to the caller and callee could vary from **programming language** to **programming language**.

For example, in C, it can be attached to the function prototypes if MASM macros...

...can also apply to static variables or data structures.

This use of versioning allows large **software** projects to be built more independently by tracking semantic changes in input parameters (bug fixes-modified parameter definitions). It also gives improved feedback as to whether the **software** project is likely to work before compilation and run-time. The versioning may also reduce...

4/3,K/17 (Item 8 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00498874 \*\*Image available\*\*

APPARATUS AND METHOD FOR ALLOWING OBJECT-ORIENTED PROGRAMS CREATED WITH DIFFERENT FRAMEWORK VERSIONS TO COMMUNICATE

```
DISPOSITIF ET PROCEDE PERMETTANT A DES PROGRAMMES ORIENTES OBJET, CREES
    AVEC DIFFERENTES VERSIONS DE SYSTEMES, DE COMMUNIQUER
Patent Applicant/Assignee:
  OBJECT TECHNOLOGY LICENSING CORPORATION,
Inventor(s):
  JABLONSKI Marc,
  DAVIS Mark,
Patent and Priority Information (Country, Number, Date):
                        WO 9930226 A2 19990617
                        WO 98US25993 19981208 (PCT/WO US9825993)
  Application:
  Priority Application: US 97986996 19971208
Designated States: CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
Publication Language: English
Fulltext Word Count: 14500
Main International Patent Class: G06F-009/44
Fulltext Availability:
  Detailed Description
Detailed Description
... and modifications made in accordance with the invention, are discussed
  in detail below. The illustrative code fragment is as follows.
  TStream& C::operator>>=(TStream* toWhere)
  WriteVersion(toWhere);
  A::operator>>=(toWhere);
  В...
... operator for resurrecting the object
  flattened by the above procedure is illustrated below. The ReadVersion(
  function is the counterpart of the WriteVersion (function which reads
  the version number . It is also discussed in detail below.
  TStream& C::operator<<=(TStream* fromWhere)
  Versionlnfo v = ReadVersion...
... Hread the old version
  . . .
  Ι
  return fromWhere;
  Overview
  The overall issue of data compatibility between application programs
  constructed with different framework versions encompasses several sub
  issues. For example, data incompatibility can...
...when incompatibilities are processed. Finally, there are issues
  concerning the reading of data streams by applications which were
  constructed without using any of the underlying framework versions.
  1 . Mismatched class versions...
              (Item 9 from file: 349)
 4/3,K/18
DIALOG(R) File 349: PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
          **Image available**
00332974
SECURITY APPARATUS AND METHOD
DISPOSITIF ET PROCEDE RELATIFS A LA SECURITE
Patent Applicant/Assignee:
  ABSOLUTE SOFTWARE CORPORATION,
  COTICHINI Christian,
  CAIN Fraser,
  NGUYEN Thanh Cam,
Inventor(s):
  COTICHINI Christian,
```

CAIN Fraser,

```
NGUYEN Thanh Cam,
Patent and Priority Information (Country, Number, Date):
                       WO 9615485 A1 19960523
                        WO 95CA646 19951115 (PCT/WO CA9500646)
  Application:
  Priority Application: US 94339978 19941115
Designated States: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE
  HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO
  RU SD SE SG SI SK TJ TM TT UA UG US UZ VN KE LS MW SD SZ UG AT BE CH DE
  DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN
Publication Language: Spanish
Fulltext Word Count: 44482
Main International Patent Class: G06F-001/00
Fulltext Availability:
  Detailed Description
Detailed Description
... include "SNTLAPI.INC"
 include "SNTLDATA.INC"
  include "SNTLTIMR.INC"
  %LIST
  SEGMENT SNTL SEG BYTE PUBLIC ' CODE '
  ******
  ; * SNTLAPI
  ;* PURPOSE:
       This function provides an external API for the Ward and Tender
       as well as development software tools, to gain access to the
  Sentinel
       The following functions are supported:
 ; *
       Function ...1 - Set Sentinel State to ALERT
  ;*
        returns CF = 0 if successful
                 CF = 1 \text{ if failed}
        Function 2 - Get Sentinel version
                                              Number
         returns AH = major version number
                  AL = minor version number
        Function 3 - Get Sentinel Serial Number
  ;*
        returns ES:DI = pointer to serial number
       Function 4 - Cancel...
             (Item 10 from file: 349)
 4/3,K/19
DIALOG(R) File 349: PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00283451
SYSTEM FOR OBJECT ORIENTED DYNAMIC LINKING BASED UPON A CATALOG OF
   REGISTERED FUNCTION SET OR CLASS IDENTIFIERS
SYSTEME DE LIAISON DYNAMIQUE ORIENTEE OBJETS SUR LA BASE D'UN CATALOGUE
   D'IDENTIFICATEURS ENREGISTRES DE JEUX OU DE CLASSES DE FONCTIONS
Patent Applicant/Assignee:
 APPLE COMPUTER INC,
Inventor(s):
  COWSAR George Curtis,
  PLUMMER Christopher Jordan,
  QUINN Michael John,
Patent and Priority Information (Country, Number, Date):
                        WO 9501598 A1 19950112
  Patent:
                        WO 94US7424 19940630 (PCT/WO US9407424)
  Application:
  Priority Application: US 93187 19930630
Designated States: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE
  KG KP KR KZ LK LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT
  UA UZ VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI
  CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 40073
```

Main International Patent Class: G06F-009/44
International Patent Class: G06F-09:445
Fulltext Availability:
Detailed Description
Claims

# Detailed Description

... number fields are used to insure that the cached information is still valid (if the library unloaded and a new version of a class or function set in the library was dragged into a registered folder, any cached information is invalid). The version number fields contain information about the version number of the class or function set that your application (code resource, extension, etc.) linked with, and the f ClassIDStr field contains the actual ClassID of...kind of objectoriented ability for ordinary functions.

### version

This declaration defines the version of the **function** set. The **version** number

is in the standard Apple version number form: The version number may not have the extra release information (like b2) on it...

...numbers separated either by 3 dots ( ... ) or an ellipsis character (option-;). This indicates the minimum version number of the function set that this function set is backwards-compatible with, and the current version number of the function set. Nothing is done with this information in version 1.0 of SLM, but future...

...information. If you do not specify a version number, the version number specified in the "Library "declaration will be assumed. This may be a #defmed symbol.

exports =
This declares a comma...

### Claim

... link cache in response to the return of the particular member function to the client application;

the dispatch <code>code</code> includes a routine which looks in the set link cache for a cached link to...

...to a standard protocol, and dispatch record further includes version information linked with the client **application** indicating a minimum version number supported by the client **application** for the **function** set

of the particular member function ,

the library includes a version number for the corresponding function sets,

and

the link routine includes **code** responsive to the version information in the dispatch record and the version number in the **library**. to insure that the client **application** supports a version of the function set of the particular member function. I 11. The apparatus of claim 9, wherein the function sets in the **library** are assigned serial numbers when the function sets are loaded in internal memory, and the dispatch record further includes a serial number linked with the client **application** indicating a serial number of the corresponding function set when the set link cache is...non-virtual function.

31 The apparatus of claim 26, wherein the function sets in the library are assigned version numbers according to a standard protocol, and dispatch record further includes version information linked with the client indicating a minimum version number supported by the client for the function set of which the particular function is a member,

the set record includes a **version number** for the corresponding **function** set,

and

the link engine includes a routine responsive to the version information in the...numbers according to a standard protocol, and including version information linked 163 with the client application indicating a minimum version number supported by the client application for the function set of the particular member function, the library includes a version number for the corresponding function sets, and

the link routine includes **code** responsive to the version information in the dispatch record and the version number in the **library** to insure that the client **application** supports a version of the function set of the particular member function.

52 An apparatus for managing **code** resources for use by client **applications** in a computer, the computer having internal memory storing at least

one client application , comprising:

the client application ;

a class catalog, the catalog stored in the internal memory, the class catalog identifying a...

4/3,K/20 (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

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00279043

METHOD AND APPARATUS FOR VECTORIZING THE CONTENTS OF A READ ONLY MEMORY DEVICE WITHOUT MODIFYING UNDERLYING SOURCE CODE

PROCEDE ET APPAREIL POUR VECTORISER LE CONTENU D'UN DISPOSITIF A MEMOIRE ROM SANS MODIFIER LE CODE SOURCE SOUS-JACENT

Patent Applicant/Assignee:

APPLE COMPUTER INC,

Inventor(s):

WETMORE Russ,

NGUYEN Philip,

Patent and Priority Information (Country, Number, Date):

Patent.

Application: WO 94US4994 19940506 (PCT/WO US9404994)

WO 9427220 A1 19941124

Priority Application: US 9358876 19930506

Designated States: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KG KP KR KZ LK LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA UZ VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

GA GN ML MR NE SN TD TG Publication Language: English

Fulltext Word Count: 7124

Main International Patent Class: G06F-009/45

Fulltext Availability:

Detailed Description

Detailed Description

... vectorization tool. It is then recompiled using an alternate set of macros to produce the **code** that initializes the vector table.

Patchina A Vectorized ROM

As the purpose of vectorizing the **code** is to facilitate fixing bugs or adding functionality, it is now useful to describe how...

...patches results from the need to support prior versions of the ROM and the ROM  ${f code}$  with each released ROM the vectorized routine will have a  ${f version}$   ${f number}$ . If a bug is discovered or a

 $\ensuremath{\text{new}}$  function  $% \ensuremath{\text{is}}$  added to the routine, then the new routine will have a higher version number...

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DIALOG(R) File 349: PCT FULLTEXT
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00279042
METHOD AND APPARATUS FOR PATCHING CODE RESIDING ON A READ ONLY MOEMORY
   DEVICE
PROCEDE ET APPAREIL POUR LA CORRECTION DE CODES RESIDANT DANS UN DISPOSITIF
   A MEMOIRE ROM
Patent Applicant/Assignee:
  APPLE COMPUTER INC,
Inventor(s):
  WETMORE Russ,
  NGUYEN Philip,
 BATISTA Ricardo,
Patent and Priority Information (Country, Number, Date):
                        WO 9427219 A1 19941124
  Patent:
                        WO 94US4995 19940506
                                             (PCT/WO US9404995)
 Application:
  Priority Application: US 9358877 19930506
Designated States: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KG
  KP KR KZ LK LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA
  UZ VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
  GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 7701
Main International Patent Class: G06F-009/44
Fulltext Availability:
  Detailed Description
Detailed Description
... that initializes the vector table.
  Patchina A Vectorized ROM
 As the purpose of vectorizing the code is ...patches results from the
 need to support
 prior versions of the ROM and the ROM code with each released ROM the
 vectorized routine will have a version number . If a bug is discovered
 new function is added to the routine, then the new routine will have a
 higher version number...
 4/3,K/22
              (Item 13 from file: 349)
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00272734
DISTRIBUTED WORK FLOW MANAGEMENT
GESTION REPARTIE DU DEROULEMENT DES OPERATIONS
Patent Applicant/Assignee:
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Inventor(s):
 NAUCKHOFF Sven,
Patent and Priority Information (Country, Number, Date):
 Patent:
                        WO 9420910 A1 19940915
 Application:
                        WO 94SE173 19940301 (PCT/WO SE9400173)
  Priority Application: SE 93671 19930301
Designated States: US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 27270
Main International Patent Class: G06F-015/21
Fulltext Availability:
 Detailed Description
Detailed Description
... SHEET
```

Some implementation notes.

1. The DEACTIVATE CASE is performed by the ATX when the Application Task has terminated.

If the case has been created or changed, then the function stores the new case version number in the case If the current case is marked for deletion (see TERMINATE-CASE above...

A/3,K/23 (Item 14 from file: 349)

ALOG(R)File 349:PCT FULLTEXT

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183685 \*\*Image available\*\*
METHOD AND APPARATUS FOR INFORMATION MANAGEMENT IN A COMPUTER SYSTEM ROCEDE ET APPAREIL DE GESTION D'INFORMATIONS DANS UN SYSTEME INFORMATION APPLICANT/Assignee:

4/3,K/23 DIALOG(R) File 349: PCT FULLTEXT (c) 2004 WIPO/Univentio. All rts. reserv. 00183685 A METHOD AND APPARATUS FOR INFORMATION MANAGEMENT IN A COMPUTER SYSTEM PROCEDE ET APPAREIL DE GESTION D'INFORMATIONS DANS UN SYSTEME INFORMATIQUE Patent Applicant/Assignee: POQET COMPUTER CORPORATION, Inventor(s): CULLIMORE Ian H S, Patent and Priority Information (Country, Number, Date): WO 9101024 A2 19910124 Patent: WO 90US3680 19900628 (PCT/WO US9003680) Application: Priority Application: US 89691 19890630 Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CM DE DE DK DK ES ES FI FR GA GB GB HU IT JP KP KR LK LU LU MC MG ML MR MW NL NL NO RO SD SE SE SN SU TD TG Publication Language: English Fulltext Word Count: 20163 Main International Patent Class: G06F-012/00 Fulltext Availability: Detailed Description Detailed Description ... the range 1 - FFh) Function 5:MaDjUrmap Handle Pages Passed: AR 44h Returns: AR Error code AL Mysical Page

tailed Description
the range
1 - FFh)
Function 5:MaDjUrmap Handle Pages
Passed: AR 44h Returns: AR Error code
AL Mysical Page
Number
BX Logical Page Number
DX RMN Handle
if E8:DI points assumed
Function 6:Deallocate Pages
15 Passed: AR 49h Returns: AR Error code
DX RMN Ran e
Function 7:Get Version
Passed: AR 46h Returns: AR Error code
AL version number
AL is returned as
major/minor
BCD version
number , e.g.